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OM nucleic - nucleic search, using sw model

Run on: March 2, 2005, 06:35:12 ; Search time 865.096 Seconds
(without alignments)
991.195 Million cell updates/sec

Title: US-09-845-416-14_COPY_2000_3446

Perfect score: 1447
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Scoring table: IDENTITY NUC
Gapop 10.0 , Gapext 1.0

Searched: 5394803 seqs, 2962729879 residues

Total number of hits satisfying chosen parameters: 10789606

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications NA:*

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Pred. No. is the number of results predicted by chance to have a
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and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1447	100.0	3446	10	US-09-845-416-14 Sequence 14, Appl
2	1447	100.0	3510	10	US-09-845-416-12 Sequence 12, Appl
3	1447	100.0	3531	10	US-09-845-416-10 Sequence 10, Appl
4	1447	100.0	3858	10	US-09-845-416-9 Sequence 9, Appl
5	1447	100.0	3999	10	US-09-845-416-6 Sequence 6, Appl
6	1447	100.0	4182	10	US-09-845-416-2 Sequence 2, Appl
7	1447	100.0	4414	10	US-09-845-416-32 Sequence 32, Appl
8	1447	100.0	4476	10	US-09-845-416-31 Sequence 31, Appl
9	1447	100.0	4498	10	US-09-845-416-30 Sequence 30, Appl
10	1447	100.0	4825	10	US-09-845-416-29 Sequence 29, Appl
11	1447	100.0	4848	10	US-09-845-416-35 Sequence 35, Appl

12	1447	100.0	4966	10	US-09-845-416-28 Sequence 28, Appl
13	1447	100.0	4990	10	US-09-845-416-34 Sequence 34, Appl
14	1447	100.0	5060	10	US-09-845-416-36 Sequence 36, Appl
15	1447	100.0	5149	10	US-09-845-416-27 Sequence 27, Appl
16	1437.6	99.4	8689	17	US-10-149-736-42 Sequence 42, Appl
17	1437.6	99.4	11058	10	US-09-845-416-1 Sequence 1, Appl
18	1437.6	99.4	11443	17	US-10-149-736-44 Sequence 44, Appl
19	1437.6	99.4	13957	9	US-09-782-378A-22 Sequence 22, Appl
20	1437.6	99.4	13957	9	US-09-880-107-2284 Sequence 2284, Ap
21	1437.6	99.4	13957	17	US-10-149-736-1 Sequence 1, Appl
22	1437.6	99.4	14069	17	US-10-172-118-434 Sequence 434, App
23	1437.6	99.4	14069	17	US-10-342-887-434 Sequence 434, App
24	1437.6	99.4	14082	17	US-10-341-434-108 Sequence 108, App
25	1437.6	99.4	14082	17	US-10-172-118-981 Sequence 981, App
26	1437.6	99.4	14082	17	US-10-342-887-981 Sequence 981, App
27	1434	99.1	1434	10	US-09-845-416-15 Sequence 15, Appl
28	1434	99.1	1821	10	US-09-845-416-13 Sequence 13, Appl
29	1434	99.1	2169	10	US-09-845-416-4 Sequence 4, Appl
30	1433.6	99.1	5339	17	US-10-149-736-40 Sequence 40, Appl
31	1433.6	99.1	5462	17	US-10-149-736-41 Sequence 41, Appl
32	1433.6	99.1	12057	17	US-10-149-736-47 Sequence 47, Appl
33	1429.6	98.8	5417	17	US-10-149-736-39 Sequence 39, Appl
34	1259.6	87.0	13815	17	US-10-149-736-2 Sequence 2, Appl
35	887	61.3	887	17	US-10-149-736-35 Sequence 35, Appl
36	779.2	53.8	10705	17	US-10-152-319A-1598 Sequence 1598, Ap
37	771.2	53.3	11096	17	US-10-149-736-4 Sequence 4, Appl
38	747	51.6	10302	9	US-09-782-378A-23 Sequence 23, Appl
39	747	51.6	10302	17	US-10-149-736-3 Sequence 3, Appl
40	738.2	51.0	16531	15	US-10-101-510-667 Sequence 667, App
41	647.8	44.8	5106	17	US-10-220-120-157 Sequence 157, App
42	324	22.4	324	17	US-10-149-736-33 Sequence 33, Appl
43	216	14.9	216	17	US-10-149-736-34 Sequence 34, Appl
44	114	7.9	114	17	US-10-149-736-45 Sequence 45, Appl
45	88	6.1	2247	9	US-09-960-253-157 Sequence 157, App

ALIGNMENTS

RESULT 1
US-09-845-416-14
; Sequence 14, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845, 416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200, 777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 14
; LENGTH: 3446
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-14

Query Match	100.0%;	Score 1447;	DB 10;	Length 3446;
Best Local Similarity	100.0%;	Pred. No. 0;		
Matches 1447;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;
QY	1	GACCCCTGAAGACTCCAGGA	CTTCAAGAGGCCACG	ATGAGCTGCG 60
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QY	61	CCAAGCTGAGTGATCAAGG	ATCCTGCGCGGATCT	CTCATGTACTCT 120
DB	2060	CCAAGCTGAGTGATCAAGG	ATCCTGCGCGGATCT	CTCATGTACTCT 2119
QY	121	CCAAGATCACTCGAAGAA	GTCAAGGCACTTCAG	GAGAAATTGGCCTCTG
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Db 2120 CCAAGATCACCTCGAAGAAAGTCAAGGACCTTGAGGAGAAATTTGCCCTCTGAAAGAGA 2179
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QY 301 CGAGGACCGAGTCAGGACGTCATGAAAGCCACAGGGACTTTGGTCCAGCATCTCAGCA 360
Db 2300 CGAGGACCGAGTCAGGACGTCATGAAAGCCACAGGGACTTTGGTCCAGCATCTCAGCA 2359
QY 361 CTTTCTTTCCACGCTGTGTCCAGGGTCCCTGGGAGAGAGCCATCTCGCCAAACAAGTGCC 420
Db 2360 CTTTCTTTCCACGCTGTGTCCAGGGTCCCTGGGAGAGAGCCATCTCGCCAAACAAGTGCC 2419
QY 421 CTACTATATCAACCAAGAGACTCAAAACAATTGCTGGGACCATCCCAAATGACAGAGCT 480
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QY 481 CTACCAGTCTTTAGCTGACCTGAATATATGTGAGATTTCTCAGCTTTAAGAGCTGCCATGA 540
Db 2480 CTACCAGTCTTTAGCTGACCTGAATATATGTGAGATTTCTCAGCTTTAAGAGCTGCCATGA 2539
QY 541 ACTCCGAAGACTGCAAGAGGCCCCCTTGGCTTGGATCTCTGAGCCTGTCAAGTCAATGA 600
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QY 661 TAATTGTTGACCACTATTATTAACCGCCTTGAGAGCAAGCAACAATTTGGTCAACGT 720
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QY 721 CCCTCTGTGCGTGATATGTGTCTGAACTGGCTGCTGAATGTTATGATACGGAGCGAAC 780
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QY 781 AGGAGGATCCGTGTCTCTTTTAAACCTGGCATCATTTCCCTGTAAAGCACATTT 840
Db 2780 AGGAGGATCCGTGTCTCTTTTAAACCTGGCATCATTTCCCTGTAAAGCACATTT 2839
QY 841 GGAAGACAAGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCAAGAGATTTTGTAGCA 900
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QY 1381 AATGGGCTACCTGCCAGTGCAGACTGTCTTAGAGGGGGACAACATGGAATCTCCGACAC 1440
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QY 1441 AATGTAG 1447
Db 3440 AATGTAG 3446

RESULT 2
US-09-845-416-12
; Sequence 12, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845,416
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 12
; LENGTH: 3510
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-09-845-416-12

Query Match 100.0%; Score 1447; DB 10; Length 3510;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1447; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY 61 CCAAGCTGAGGTGATCAAGGATCCTGGCAGCCCGTGGCGATCTCTCATTTGACTCTCT 120
Db 2124 CCAAGCTGAGGTGATCAAGGATCCTGGCAGCCCGTGGCGATCTCTCATTTGACTCTCT 2183
QY 121 CCAAGATCACCTCGAAGAAAGTCAAGGCACTTGAAGAGAAATTGGCCTCGAAAGAGAA 180
Db 2184 CCAAGATCACCTCGAAGAAAGTCAAGGCACTTGAAGAGAAATTGGCCTCGAAAGAGAA 2243
QY 181 CGTAGCCACGTCATGACCTTGTGCGCAAGCTTACCACTTTGGGCAATTCAGCTCTCAC 240
Db 2244 CGTAGCCACGTCATGACCTTGTGCGCAAGCTTACCACTTTGGGCAATTCAGCTCTCAC 2303
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QY 301 CGAGGACCGAGTCAGGACGTCATGAAAGCCACAGGGACTTTGGTCCAGCATCTCAGCA 360
Db 2364 CGAGGACCGAGTCAGGACGTCATGAAAGCCACAGGGACTTTGGTCCAGCATCTCAGCA 2423
QY 361 CTTTCTTTCCACGCTGTGTCAAGGGTCCCTGGGAGAGAGCCATCTCGCCAAACAAGTGCC 420
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Db 2544 CTACCACTCTTTAGCTGACCTGAATAAATGTCAGATTCTCAGCTTATAGAGACTGCCATGAA 2603
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Qy 721 CCCTCTGCGGTGGATATGTGCTGAACTGCGCTGTAATGTTTATGATACGGGACGAAC 780
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Db 2844 AGGAGAGATCCGTGCTGCTGCTTTTAAACTGGCATCATTTCCCTGTGTAAGCACATTT 2903
Qy 841 GGAAGACAGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCAACAGAGATTGTGACCA 900
Db 2904 GGAAGACAGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCAACAGAGATTGTGACCA 2963
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Db 2964 GCGCAGGCTGGGCTCCTCTTGATGATTTCTAATCCAATTTCCAAGACAGTTGGGTGAAGT 3023
Qy 961 TGCATCTTTGGGGGACGTAACATTGAGCCAAAGTGTCCGAGCTGCTTCCAATTGCTAA 1020
Db 3024 TGCATCTTTGGGGGACGTAACATTGAGCCAAAGTGTCCGAGCTGCTTCCAATTGCTAA 3083
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Db 3084 TAAATAGCCAGAGATCGAAGCGGCCCTCTTCTAGACTGATGAGACTGGAACCCAGTC 3143
Qy 1081 CATGCTGCTGCCCCGCTGCTGACAGAGTGGCTGTCAGAACTGCCAAGCATCAGGC 1140
Db 3144 CATGCTGCTGCCCCGCTGCTGACAGAGTGGCTGTCAGAACTGCCAAGCATCAGGC 3203
Qy 1141 CAAATGTAACTCTGCAAAAGAGTGTCCAATCATTTGATTCAAGTACAGAGTCTAAAGCA 1200
Db 3204 CAAATGTAACTCTGCAAAAGAGTGTCCAATCATTTGATTCAAGTACAGAGTCTAAAGCA 3263
Qy 1201 CTTTAAATATGACATCTGCCAAAGCTGCTTTTCTGCTGAGTGTGCAAAAGGCCATAA 1260
Db 3264 CTTTAAATATGACATCTGCCAAAGCTGCTTTTCTGCTGAGTGTGCAAAAGGCCATAA 3323
Qy 1261 AATGCACTATCCCATGCTGTAATATGCACTCCGACTACATCAGAGAAAGATGTTGAGA 1320
Db 3324 AATGCACTATCCCATGCTGTAATATGCACTCCGACTACATCAGAGAAAGATGTTGAGA 3383
Qy 1321 CTTTGCAAGGTAATAAAAAACAATTTGCAACCAAAAGGATTTTGGCAAGCATCCCCG 1380
Db 3384 CTTTGCAAGGTAATAAAAAACAATTTGCAACCAAAAGGATTTTGGCAAGCATCCCCG 3443
Qy 1381 AATGGGCTACCTGCGACAGTGTCTTGAAGGGGGACAAACATGAAACTCCGACAC 1440
Db 3444 AATGGGCTACCTGCGACAGTGTCTTGAAGGGGGACAAACATGAAACTCCGACAC 3503
Qy 1441 AATGTAG 1447
Db 3504 AATGTAG 3510

RESULT 3

US-09-845-416-10
; Sequence 10, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845,416
; PRIOR FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 10
; LENGTH: 3531
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-10

Query Match 100.0%; Score 1447; DB 10; Length 3531;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1447; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Db 2085 GACCTTGAAGACTCCAGAACTTCAAGAGCCACGGATGAGCTGAGCTCAAGCTGCG 2144
Qy 61 CCAAGCTGAGTGATCAAGGATCCTGGCAGCCCCGTGGCGATCTCCTCATTTGACTCTCT 120
Db 2145 CCAAGCTGAGTGATCAAGGATCCTGGCAGCCCCGTGGCGATCTCCTCATTTGACTCTCT 2204
Qy 121 CCAAGATCACCTCGAAGAAAGTCAAGGACCTTGAAGAGAAATGGCCCTCTGAAGAGAA 180
Db 2205 CCAAGATCACCTCGAAGAAAGTCAAGGACCTTGAAGAGAAATGGCCCTCTGAAGAGAA 2264
Qy 181 CGTGAGCCACGTCAATGACCTTGCTGCGCACTTAACACTTTGGGCATTGACTCTCACC 240
Db 2265 CGTGAGCCACGTCAATGACCTTGCTGCGCACTTAACACTTTGGGCATTGACTCTCACC 2324
Qy 241 GTATACTAGACTCTGGAAGACTGAAACCAAGATGGAAGCTTCTGAGGTGGCCGT 300
Db 2325 GTATACTAGACTCTGGAAGACTGAAACCAAGATGGAAGCTTCTGAGGTGGCCGT 2384
Qy 301 CGAGGACCGAGTCAAGGACGCTGCATGAAGCCCAAGGACTTTGGTCCAGACTCTCAGCA 360
Db 2385 CGAGGACCGAGTCAAGGACGCTGCATGAAGCCCAAGGACTTTGGTCCAGACTCTCAGCA 2444
Qy 361 CTTTCTTTCCAGCTGTGTCCAGGGTCCCTGGGAGAGAGCCATCTCGCCAAACAAGTGCC 420
Db 2445 CTTTCTTTCCAGCTGTGTCCAGGGTCCCTGGGAGAGAGCCATCTCGCCAAACAAGTGCC 2504
Qy 421 CTACTATATCAACCAAGAGACTCAAACTTGTCTGGGACCATCCCAAAATGACAGAGCT 480
Db 2505 CTACTATATCAACCAAGAGACTCAAACTTGTCTGGGACCATCCCAAAATGACAGAGCT 2564
Qy 481 CTACCACTCTTACCTGACCTGAATAATGTCAGATTCTCAGCTTATAGAGCTGCCATGAA 540
Db 2565 CTACCACTCTTACCTGACCTGAATAATGTCAGATTCTCAGCTTATAGAGCTGCCATGAA 2624
Qy 541 ACTCCGAAGACTGACAGAGGCCCCCTTGCTTGATCTCTTGAGCCCTGACGTGATGTGA 600
Db 2625 ACTCCGAAGACTGACAGAGGCCCCCTTGCTTGATCTCTTGAGCCCTGACGTGATGTGA 2684
Qy 601 TGCCTTGACACGACAACTCAAGCAAAATGACAGCCCATGATATCTCGACAGATTAT 2744
Db 2685 TGCCTTGACACGACAACTCAAGCAAAATGACAGCCCATGATATCTCGACAGATTAT 2744
Qy 661 TAATGTTTGACCACTATTATGACCGCTGAGACAAAGACACAACTTTGGTCAACGT 720
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Db 2805 CCCTCTCTGCGTGGATATGTCTGAACTGGCTGCTGAATGTTATGATACGGAGCAAC 2864
QY 781 AGGAGGATCCGTGTCCTGCTTTTAAACTGGCATCATTTCCCTGTGTAAAGCACATTT 840
Db 2865 AGGAGGATCCGTGTCCTGCTTTTAAACTGGCATCATTTCCCTGTGTAAAGCACATTT 2924
QY 841 GGAAGACAAGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCAACAGATTTTGTGACCA 900
Db 2925 GGAAGACAAGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCAACAGATTTTGTGACCA 2984
QY 901 GCGCAGGCTGGGCTCTCTTCTGATGATTCTAATCCAATTCGAAGACAGTTGGTGAAGT 960
Db 2985 GCGCAGGCTGGGCTCTCTTCTGATGATTCTAATCCAATTCGAAGACAGTTGGTGAAGT 3044
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Db 3105 TAATAAGCCAGAGATCGAAGCGGCCCTCTCTAGACTGGATGAGACTGGAACCCAGTC 3164
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Db 3345 AATGCACTATCCCATGTGGAATATTGACATCCGACTACATCAGAGAAAGATGTTGAGA 3404
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QY 1381 AATGGGCTACCTGCGCAGTGCAGACTGTCTTAAAGGGGAGCAACATGAAACTCCCGACAC 1440
Db 3465 AATGGGCTACCTGCGCAGTGCAGACTGTCTTAAAGGGGAGCAACATGAAACTCCCGACAC 3524
QY 1441 AATGTAG 1447
Db 3525 AATGTAG 3531

RESULT 4
US-09-845-416-9
; Sequence 9, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845,416
; PRIOR FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 9
; LENGTH: 3858
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-9

Query Match 100.0%; Score 1447; DB 10; Length 3858;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1447; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 GACCCCTGAAAGACTCCAGGAACCTTCAAGAGGCCACGATGAGCTGGAACCTCAAGCTGCG 60
Db 2412 GACCCCTGAAAGACTCCAGGAACCTTCAAGAGGCCACGATGAGCTGGAACCTCAAGCTGCG 2471
QY 61 CCAAGCTGAGGTGATCAAGGGATCTGGGAGCCCGTGGGCGATCTCTCATTTGACTCTCT 120
Db 2472 CCAAGCTGAGGTGATCAAGGGATCTGGGAGCCCGTGGGCGATCTCTCATTTGACTCTCT 2531
QY 121 CCAAGATCACCTCGAAGAAAGTCAAGGCACTTCAAGGAAATTTGCGCCTCTGAAGAGAA 180
Db 2532 CCAAGATCACCTCGAAGAAAGTCAAGGCACTTCAAGGAAATTTGCGCCTCTGAAGAGAA 2591
QY 181 CGTAGCCACGTCAATGACCTTGCTCGCCAGCTTACCACTTTGGGATTCAGCTCTCAAC 240
Db 2592 CGTAGCCACGTCAATGACCTTGCTCGCCAGCTTACCACTTTGGGATTCAGCTCTCAAC 2651
QY 241 GTATACTCAGCACTCTGGAAGACCTGGAACCAAGTGAAGTGAAGTCTTGCAGGTGCGCT 300
Db 2652 GTATACTCAGCACTCTGGAAGACCTGGAACCAAGTGAAGTGAAGTCTTGCAGGTGCGCT 300
QY 301 CGAGGACCGAGTCAGGCACTGATGAAGCCCAAGGAACTTTGGTCCAGCATCTCAGCA 360
Db 2712 CGAGGACCGAGTCAGGCACTGATGAAGCCCAAGGAACTTTGGTCCAGCATCTCAGCA 2771
QY 361 CTTTCTTTCCACGTCTGTCCAGGGTCCCTGGGAGAGAGCCATCTCGCCAAACAAAGTGCC 420
Db 2772 CTTTCTTTCCACGTCTGTCCAGGGTCCCTGGGAGAGAGCCATCTCGCCAAACAAAGTGCC 2831
QY 421 CTACTATATCAACCAAGAGACTCAAACTTCTGAGGACCATCTCCCAAAATGACAGAGCT 480
Db 2832 CTACTATATCAACCAAGAGACTCAAACTTCTGAGGACCATCTCCCAAAATGACAGAGCT 2891
QY 481 CTAACGATCTTTAGCTGACCTGAATTAATGTCAGATTCTCAGCTTAATGAGACTGCCATGAA 540
Db 2892 CTAACGATCTTTAGCTGACCTGAATTAATGTCAGATTCTCAGCTTAATGAGACTGCCATGAA 2951
QY 541 ACTCCGAAGACTGCAGAAAGCCCTTGTGATCTCTTGAAGCTGTCAAGCTGCATGTA 600
Db 2952 ACTCCGAAGACTGCAGAAAGCCCTTGTGATCTCTTGAAGCTGTCAAGCTGCATGTA 3011
QY 601 TGCCTTGAACGACCAACCTCAAGCAAAATGACCAAGCCCATGATATCTGACAGATTAT 660
Db 3012 TGCCTTGAACGACCAACCTCAAGCAAAATGACCAAGCCCATGATATCTGACAGATTAT 3071
QY 661 TAATGTTGACCACTATTATGACCCGCTGAGCAAGACCAACAATTTGTCAACGT 720
Db 3072 TAATGTTGACCACTATTATGACCCGCTGAGCAAGACCAACAATTTGTCAACGT 3131
QY 721 CCCTCTCTGCGTGGATATGTCTGAACTGGCTGCTGAATGTTATGATACGGAGCAAC 780
Db 3132 CCCTCTCTGCGTGGATATGTCTGAACTGGCTGCTGAATGTTATGATACGGAGCAAC 3191
QY 781 AGGAGGATCCGTGTCCTGCTTTTAAACTGGCATCATTTCCCTGTGTAAAGCACATTT 840
Db 3192 AGGAGGATCCGTGTCCTGCTTTTAAACTGGCATCATTTCCCTGTGTAAAGCACATTT 3251
QY 841 GGAAGACAAGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCAACAGATTTTGTGACCA 900
Db 3252 GGAAGACAAGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCAACAGATTTTGTGACCA 3311
QY 901 GCGCAGGCTGGGCTCTCTTCTGATGATTCTAATCCAATTCGAAGACAGTTGGTGAAGT 960
Db 3312 GCGCAGGCTGGGCTCTCTTCTGATGATTCTAATCCAATTCGAAGACAGTTGGTGAAGT 3371
QY 961 TGCATCCTTTGGGGGCAGTAAACATTGAGCCAAAGTCCGAGCTGCTTCCAATTTGCTAA 1020
Db 3372 TGCATCCTTTGGGGGCAGTAAACATTGAGCCAAAGTCCGAGCTGCTTCCAATTTGCTAA 3431
QY 1021 TAATAAGCCAGAGATCGAAGCGGCCCTCTCTAGACTGGATGAGACTGAACCCAGTC 1080

Db 3432 TAATAAGCCAGAGATCGAAGCGCCCTCTTCTAGACTGATGAGACTGGAACCCAGTGC 3491

QY 1081 CATGGTGTGGCTGCCGCTCCTGCACAGAGTGGCTCTGCAGAACTGGCCAAGCATCAGGC 1140

Db 3492 CATGGTGTGGCTGCCGCTCCTGCACAGAGTGGCTCTGCAGAACTGGCCAAGCATCAGGC 3551

QY 1141 CAAATGTAACTCTGCAAAAGAGTGTCCAATCATTTGATTGAGTACAGAGTCTAAAGCA 1200

Db 3552 CAAATGTAACTCTGCAAAAGAGTGTCCAATCATTTGATTGAGTACAGAGTCTAAAGCA 3611

QY 1201 CTTTAATTATGACATCTGCCAAAGCTGCTTTTCTGTGTCGAGTTGCAAAAGGCCATAA 1260

Db 3612 CTTTAATTATGACATCTGCCAAAGCTGCTTTTCTGTGTCGAGTTGCAAAAGGCCATAA 3671

QY 1261 AATGCACTATCCCATGTGTGAATATTGCACTCCGACTACATCAGAGAGAAGATGTTGAGA 1320

Db 3672 AATGCACTATCCCATGTGTGAATATTGCACTCCGACTACATCAGAGAGAAGATGTTGAGA 3731

QY 1321 CTTTGCCCAAGGTAATAAAAAACAATTTCGAACCAAAAGGTAATTTGCGAAGCATCCCCG 1380

Db 3732 CTTTGCCCAAGGTAATAAAAAACAATTTCGAACCAAAAGGTAATTTGCGAAGCATCCCCG 3791

QY 1381 AATGGGCTACTCTGCCAGTGCAGACTGTCTTGAAGGGGCAACAATGGAACCTCCGACAC 1440

Db 3792 AATGGGCTACTCTGCCAGTGCAGACTGTCTTGAAGGGGCAACAATGGAACCTCCGACAC 3851

QY 1441 AATGTAG 1447

Db 3852 AATGTAG 3858

RESULT 5

US-09-845-416-6

; Sequence 6, Application US/09845416

; Publication No. US20030171312A1

; GENERAL INFORMATION:

; APPLICANT: XIAO, XIAO

; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE

; FILE REFERENCE: DE1142

; CURRENT APPLICATION NUMBER: US/09/845,416

; CURRENT FILING DATE: 2001-04-30

; PRIOR APPLICATION NUMBER: 60/200,777

; PRIOR FILING DATE: 2000-04-28

; NUMBER OF SEQ ID NOS: 36

; SOFTWARE: PatentIn Ver. 2.1

; SEQ ID NO 6

; LENGTH: 3999

; TYPE: DNA

; ORGANISM: Homo sapiens

; US-09-845-416-6

Query Match 100.0%; Score 1447; DB 10; Length 3999;

Best Local Similarity 100.0%; Pred. No. 0;

Matches 1447; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GACCTTGAAAGACTCCAGGAACCTCAAGAGGCCACGGATGAGCTGGAAGCTCAAGCTGCG 60

Db 2553 GACCTTGAAAGACTCCAGGAACCTCAAGAGGCCACGGATGAGCTGGAAGCTCAAGCTGCG 2612

QY 61 CCAAGCTGAGGTGATCAAGGATCTGGCAGCCCGTGGCGATCTCTCATTTGACTCTCT 120

Db 2613 CCAAGCTGAGGTGATCAAGGATCTGGCAGCCCGTGGCGATCTCTCATTTGACTCTCT 2672

QY 121 CCAAGATCACTCGAGAAAGTCAAGGCACTTCAGAGAGAATTCGCGCTTGAAAGAGAA 180

Db 2673 CCAAGATCACTCGAGAAAGTCAAGGCACTTCAGAGAGAATTCGCGCTTGAAAGAGAA 2732

QY 181 CGTGAGCCAAGTCAATGACCTTGTGCGCAAGCTTAACACTTTGGGCAATTCAGCTCTCAC 240

Db 2733 CGTGAGCCAAGTCAATGACCTTGTGCGCAAGCTTAACACTTTGGGCAATTCAGCTCTCAC 2792

QY 241 GTATTAACCTCAGCACTCTGGAAGACCTTGAACACCAGATGGAAGCTTCTGCAAGGTGCCGT 300

Db 2793 GTATTAACCTCAGCACTCTGGAAGACCTTGAACACCAGATGGAAGCTTCTGCAAGGTGCCGT 2852

QY 301 CGAGACCCGAGTCAAGCAGCTGCATGAAGCCACAGGACTTTGGTCCAGCATCTCAGCA 360

Db 2853 CGAGACCCGAGTCAAGCAGCTGCATGAAGCCACAGGACTTTGGTCCAGCATCTCAGCA 2912

QY 361 CTTTCTTTCACAGTCTGTCCAGGGTCCCTGGGAGAGAGCCATCTGCGCAAACAAGTGCC 420

Db 2913 CTTTCTTTCACAGTCTGTCCAGGGTCCCTGGGAGAGAGCCATCTGCGCAAACAAGTGCC 2972

QY 421 CTACTATATCAACCAAGAGACTCAAAACAATTGCTGGGACCATCCCAAAATGACAGAGCT 480

Db 2973 CTACTATATCAACCAAGAGACTCAAAACAATTGCTGGGACCATCCCAAAATGACAGAGCT 3032

QY 481 CTACCAAGTCTTTAGCTGACCTGAATATGTGAGATTCTCAGCTTTATAGACTGCCATGAA 540

Db 3033 CTACCAAGTCTTTAGCTGACCTGAATATGTGAGATTCTCAGCTTTATAGACTGCCATGAA 3092

QY 541 ACTCCGAAGACTGCAGAGAGCCCTTTGCTTGATCTCTTGAGCCTGTGACCTGCATGTGA 600

Db 3093 ACTCCGAAGACTGCAGAGAGCCCTTTGCTTGATCTCTTGAGCCTGTGACCTGCATGTGA 3152

QY 601 TGCTTGACACGACAACAACCTCAAGCAAAATGACCAAGCCCATGATATCTCTGACAGATTAT 660

Db 3153 TGCTTGACACGACAACAACCTCAAGCAAAATGACCAAGCCCATGATATCTCTGACAGATTAT 3212

QY 661 TAATTGTTGACCACTATTATATGACCCGCTGAGACCAAGACCAACAATTGGTCAACGT 720

Db 3213 TAATTGTTGACCACTATTATATGACCCGCTGAGACCAAGACCAACAATTGGTCAACGT 3272

QY 721 CCCTCTCTGCGTGATATGTGTCTGAACCTGCTGTAATGTTATGATACGGGACGAAC 780

Db 3273 CCCTCTCTGCGTGATATGTGTCTGAACCTGCTGTAATGTTATGATACGGGACGAAC 3332

QY 781 AGGAGGATCCGTGCTCTGCTTTTAAACTGGCATCATTTCCGTGTAAAGCACATTT 840

Db 3333 AGGAGGATCCGTGCTCTGCTTTTAAACTGGCATCATTTCCGTGTAAAGCACATTT 3392

QY 841 GGAAGACAGTACAGATACCTTTTCAAGCAAGTGGAAGTTCAACAGATTGTCAGCA 900

Db 3393 GGAAGACAGTACAGATACCTTTTCAAGCAAGTGGAAGTTCAACAGATTGTCAGCA 3452

QY 901 GCGCAGGCTGGGCTCCTCTCTGATGATTTCTAATCCAATTCCAAGACGTTGGGTGAAGT 960

Db 3453 GCGCAGGCTGGGCTCCTCTCTGATGATTTCTAATCCAATTCCAAGACGTTGGGTGAAGT 3512

QY 961 TGATCTCTTTGGGGGCAAGTAACATTTGAGCCAAAGTGTCCGAGCTGCTTCCAATTGCTAA 1020

Db 3513 TGATCTCTTTGGGGGCAAGTAACATTTGAGCCAAAGTGTCCGAGCTGCTTCCAATTGCTAA 3572

QY 1021 TAATTAAGCCAGAGATCGAAGCGGCCCTTCTCTAGACTGGATGAGACTGGAACCCAGTGC 1080

Db 3573 TAATTAAGCCAGAGATCGAAGCGGCCCTTCTCTAGACTGGATGAGACTGGAACCCAGTGC 3632

QY 1081 CATGGTGTGGCTGCCGCTCCTGCACAGAGTGGCTGTCAGAAACTGGCCAAAGCATCAGGC 1140

Db 3633 CATGGTGTGGCTGCCGCTCCTGCACAGAGTGGCTGTCAGAAACTGGCCAAAGCATCAGGC 3692

QY 1141 CAAATGTAACTCTGCAAAAGAGTGTCCAATCATTTGATTGAGTTCAGGTACAGAGTCTAAAGCA 1200

Db 3693 CAAATGTAACTCTGCAAAAGAGTGTCCAATCATTTGATTGAGTTCAGGTACAGAGTCTAAAGCA 3752

QY 1201 CTTTAATTATGACATCTGCCAAAGCTGCTTTTCTGTGTCGAGTTGCAAAAGGCCATAA 1260

Db 3753 CTTTAATTATGACATCTGCCAAAGCTGCTTTTCTGTGTCGAGTTGCAAAAGGCCATAA 3812

QY 1261 AATGCACTATCCCATGTGTGAATATTTGACTCCGACTACATCAGAGAAAGATGTTGAGA 1320

Db 3813 AATGCACTATCCCATGTGTGAATATTTGACTCCGACTACATCAGAGAAAGATGTTGAGA 3872

QY 1321 CTTTGCAAGGTAATAAAAAACAATTTCGAACCAAAAGGTAATTTGGGAAGCATCCCCG 1380

Db 3873 CTTGCCAAGTACTAAACAAATTTCCGAACCAAAAGTATTTGGCAAGCATCCCCG 3932
QY 1381 AATGGGCTACCTGCGAGTGCAGACTGTCTTTAGAGGGGGACAACATGAAACTCCGACAC 1440
Db 3933 AATGGGCTACCTGCGAGTGCAGACTGTCTTTAGAGGGGGACAACATGAAACTCCGACAC 3992
QY 1441 AATGTAG 1447
Db 3993 AATGTAG 3999

RESULT 6
US-09-845-416-2
; Sequence 2, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845,416
; PRIOR FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 4182
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-2

Query Match 100.0%; Score 1447; DB 10; Length 4182;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1447; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GACCCCTGAAAAGACTCCAGGAACCTTCAAGAGGCCACGAGATGAGCTGGAACCTCAAGCTGCG 60
Db 2736 GACCCCTGAAAAGACTCCAGGAACCTTCAAGAGGCCACGAGATGAGCTGGAACCTCAAGCTGCG 2795
QY 61 CCAAGCTGAGGTGATCAAGGGATCCTGGAGCCCGTGGCGATCTCTCATTTGACTCTCT 120
Db 2796 CCAAGCTGAGGTGATCAAGGGATCCTGGAGCCCGTGGCGATCTCTCATTTGACTCTCT 2855
QY 121 CCAAGATCACTCGAGAAAGTCAAGGCACTTCGAGGAGAAATTGGCCTCTGAAAGAGAA 180
Db 2856 CCAAGATCACTCGAGAAAGTCAAGGCACTTCGAGGAGAAATTGGCCTCTGAAAGAGAA 2915
QY 181 CGTGAGCCACGTCAATGACCTTGTGCGCCAGCTTACCACTTTGGCATTCAAGCTCTCAC 240
Db 2916 CGTGAGCCACGTCAATGACCTTGTGCGCCAGCTTACCACTTTGGCATTCAAGCTCTCAC 2975
QY 241 GTATAACTCAGCACTCTGGAAGACCTGAACACCAAGATGAACTTTGCAAGGTGGCCGT 300
Db 2976 GTATAACTCAGCACTCTGGAAGACCTGAACACCAAGATGAACTTTGCAAGGTGGCCGT 3035
QY 301 CGAGAGCCGAGTCAAGCAGCTGATGAAGCCCAAGGCACTTTGGTCCAGCATCTCAGCA 360
Db 3036 CGAGAGCCGAGTCAAGCAGCTGATGAAGCCCAAGGCACTTTGGTCCAGCATCTCAGCA 3095
QY 361 CTTTCTTTCCACGTCTGTCCAGGGTCCCTGGGAGAGAGCCATCTGCGCAACAAGTGCC 420
Db 3096 CTTTCTTTCCACGTCTGTCCAGGGTCCCTGGGAGAGAGCCATCTGCGCAACAAGTGCC 3155
QY 421 CTACTATATCAACCAAGACTCAAAACAACTTGTGGAGACCATCCCAAAATGACAGAGCT 480
Db 3156 CTACTATATCAACCAAGACTCAAAACAACTTGTGGAGACCATCCCAAAATGACAGAGCT 3215
QY 481 CTACCAGTCTTTAGCTGAACCTGAATATGTCAAGATTCTCAGCTTATAGGACTGCCATGAA 540
Db 3216 CTACCAGTCTTTAGCTGAACCTGAATATGTCAAGATTCTCAGCTTATAGGACTGCCATGAA 3275

QY 541 ACTCCGAAGACTGCAGAAAGGCCCTTTGGCTTGAATCTCTTGAGCCTGTGACGTGATGTA 600
Db 3276 ACTCCGAAGACTGCAGAAAGGCCCTTTGGCTTGAATCTCTTGAGCCTGTGACGTGATGTA 3335
QY 601 TGCCTTGAGCCAGCAACAACCTCAAGCAAAATGACCAGCCCATGATATCTCTGAGATTA 660
Db 3336 TGCCTTGAGCCAGCAACAACCTCAAGCAAAATGACCAGCCCATGATATCTCTGAGATTA 3395
QY 661 TAATTGTTGACCACTATTATATGACCCGCTTGAGCAAGAGCAACAATTTGGTCAACGT 720
Db 3396 TAATTGTTGACCACTATTATATGACCCGCTTGAGCAAGAGCAACAATTTGGTCAACGT 3455
QY 721 CCCTCTGCGTGATATATGTGTGAACTGGCTGCTGAATGTTATGATACGGAGCAAC 780
Db 3456 CCCTCTGCGTGATATATGTGTGAACTGGCTGCTGAATGTTATGATACGGAGCAAC 3515
QY 781 AGGAGGATCCGTGTCTGTCTTTTAAACTGSCATCAATTCCCTGTGTAAGCACATTT 840
Db 3516 AGGAGGATCCGTGTCTGTCTTTTAAACTGSCATCAATTCCCTGTGTAAGCACATTT 3575
QY 841 GGAAGCAAGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCACAGAGATTTGTGACCA 900
Db 3576 GGAAGCAAGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCACAGAGATTTGTGACCA 3635
QY 901 GCGCAGGCTGGGCTCTCTTGATGATTCTATCCAATTCCAAGACAGTTGGGTGAAGT 960
Db 3636 GCGCAGGCTGGGCTCTCTTGATGATTCTATCCAATTCCAAGACAGTTGGGTGAAGT 3695
QY 961 TGCATCTTTGGGGGCGAATAATTGAGCCAAAGTGTCCGAGCTGCTTCCAATTGCTAA 1020
Db 3696 TGCATCTTTGGGGGCGAATAATTGAGCCAAAGTGTCCGAGCTGCTTCCAATTGCTAA 3755
QY 1021 TAATTAAGCCAGAGATCGAAGCGGCCCTCTTCTTGAAGTGAAGTGAACCCAGTCC 1080
Db 3756 TAATTAAGCCAGAGATCGAAGCGGCCCTCTTCTTGAAGTGAAGTGAACCCAGTCC 3815
QY 1081 CATGCTGTGCTGCGCCGTCTCTGACAGAGTGGCTGTGAGAACTGCCAAGCATCAGGC 1140
Db 3816 CATGCTGTGCTGCGCCGTCTCTGACAGAGTGGCTGTGAGAACTGCCAAGCATCAGGC 3875
QY 1141 CAAATGTAACATCTGCAAGAGTGTCCAATCATTTGATTCAAGTACAGAGTCTAAAGCA 1200
Db 3876 CAAATGTAACATCTGCAAGAGTGTCCAATCATTTGATTCAAGTACAGAGTCTAAAGCA 3935
QY 1201 CTTTAATTATGACATCTGCCAAAGCTGCTTTTCTGTGAGTTGCAAAAAGGCCATAA 1260
Db 3936 CTTTAATTATGACATCTGCCAAAGCTGCTTTTCTGTGAGTTGCAAAAAGGCCATAA 3995
QY 1261 AATGACATATCCATGTGTGAATATTGCACTCCGACTACATCAGAGAAAGATGTTGAGA 1320
Db 3996 AATGACATATCCATGTGTGAATATTGCACTCCGACTACATCAGAGAAAGATGTTGAGA 4055
QY 1321 CTTTGCCAGGTACTAAAAACAATTTGGAACCAAAAGTATTTGGCAAGCATCCCGG 1380
Db 4056 CTTTGCCAGGTACTAAAAACAATTTGGAACCAAAAGTATTTGGCAAGCATCCCGG 4115
QY 1381 AATGGGCTACCTGCGAGTGCAGACTGTCTTGAAGGGGGAACAACATGAAACTCCGACAC 1440
Db 4116 AATGGGCTACCTGCGAGTGCAGACTGTCTTGAAGGGGGAACAACATGAAACTCCGACAC 4175
QY 1441 AATGTAG 1447
Db 4176 AATGTAG 4182

RESULT 7
US-09-845-416-32
; Sequence 32, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; FILE REFERENCE: THEREOF

FILE REFERENCE: DE1142
CURRENT APPLICATION NUMBER: US/09/845,416
CURRENT FILING DATE: 2001-04-30
PRIOR APPLICATION NUMBER: 60/200,777
PRIOR FILING DATE: 2000-04-28
NUMBER OF SEQ ID NOS: 36
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 32
LENGTH: 4414
TYPE: DNA
ORGANISM: Homo sapiens
US-09-845-416-32

Query Match 100.0%; Score 1447; DB 10; Length 4414;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1447; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GACCCCTGAAAGACTCCAGAACTTCAAGAGGCCAGATGAGCTGAGCTCAAGCTGCG 60
DB 2758 GACCCCTGAAAGACTCCAGAACTTCAAGAGGCCAGATGAGCTGAGCTCAAGCTGCG 2817
QY 61 CCAAGCTGAGGTATCAAGGGATCCTGCGAGCCCGTGGCGGATCTCTCATTTGACTCTCT 120
DB 2818 CCAAGCTGAGGTATCAAGGGATCCTGCGAGCCCGTGGCGGATCTCTCATTTGACTCTCT 2877
QY 121 CCAAGATCACTCGAGAAAGTCAAGGCACTTCGAGAGAAATTGCGCTCTGAAAGAGAA 180
DB 2878 CCAAGATCACTCGAGAAAGTCAAGGCACTTCGAGAGAAATTGCGCTCTGAAAGAGAA 2937
QY 181 CGTAGCCACGTCATGACCTTGCTCGCCAGCTTACCACTTTGGGCATTGAGCTCTCACC 240
DB 2938 CGTAGCCACGTCATGACCTTGCTCGCCAGCTTACCACTTTGGGCATTGAGCTCTCACC 2997
QY 241 GTATAACCTCAGCACTCTGGAAGACCTGAAACACAGATGGAAGCTTCTGCAAGTGGCCGT 300
DB 2998 GTATAACCTCAGCACTCTGGAAGACCTGAAACACAGATGGAAGCTTCTGCAAGTGGCCGT 3057
QY 301 CGAGACCGAGTCAAGGCAAGCTGCATGAAGCCCAAGGGAATTGGTCCAGCATCTCAGCA 360
DB 3058 CGAGACCGAGTCAAGGCAAGCTGCATGAAGCCCAAGGGAATTGGTCCAGCATCTCAGCA 3117
QY 361 CTTTCTTTCCAGCTGTGTCCAGGGTCCCTGGGAGAGAGCCATCTCGCCAAACAAGTGCC 420
DB 3118 CTTTCTTTCCAGCTGTGTCCAGGGTCCCTGGGAGAGAGCCATCTCGCCAAACAAGTGCC 3177
QY 421 CTACTATATCAACAGAGACTCAAAACAATTGCTGGGACCATCCCAAAATGACAGAGCT 480
DB 3178 CTACTATATCAACAGAGACTCAAAACAATTGCTGGGACCATCCCAAAATGACAGAGCT 3237
QY 481 CTACCACTTTAGCTGACCTGAATATGTCAGATTCTCAGCTTATAGACTGCCATGAA 540
DB 3238 CTACCACTTTAGCTGACCTGAATATGTCAGATTCTCAGCTTATAGACTGCCATGAA 3297
QY 541 ACTCCGAAGACTGAGAGAGGCCCTTGTGATCTCTTGAGCCTGTCACTGCATGTGA 600
DB 3298 ACTCCGAAGACTGAGAGAGGCCCTTGTGATCTCTTGAGCCTGTCACTGCATGTGA 3357
QY 601 TGCCTTGGACCAACAACCTCAAGCAAAATGACCAAGCCATGATATCTCTGCAAGATTAT 660
DB 3358 TGCCTTGGACCAACAACCTCAAGCAAAATGACCAAGCCATGATATCTCTGCAAGATTAT 3417
QY 661 TAATTGTTGACCACTATTATGACCGCCTGAGCAAGAGCAACAATTTGGTCAACGT 720
DB 3418 TAATTGTTGACCACTATTATGACCGCCTGAGCAAGAGCAACAATTTGGTCAACGT 3477
QY 721 CCCTCTGCGTGAATATGTCTGAACTGGCTGTAATGTTATGATACGGAGCAAC 780
DB 3478 CCCTCTGCGTGAATATGTCTGAACTGGCTGTAATGTTATGATACGGAGCAAC 3537
QY 781 AGGAGGATCCGTCTCTCTTTTAAAACTGCATCATTTCCCTGTGTAAGCACATTT 840
DB 3538 AGGAGGATCCGTCTCTCTCTTTTAAAACTGCATCATTTCCCTGTGTAAGCACATTT 3597

QY 841 GGAAGACAAGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCACAGAAATTTGTGACCA 900
DB 3598 GGAAGACAAGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCACAGAAATTTGTGACCA 3657
QY 901 GCGCAGGCTGGGCTCTTCTGATGATTTCAAAATTTCCAAGACAGTTGGGTGAAGT 960
DB 3658 GCGCAGGCTGGGCTCTTCTGATGATTTCAAAATTTCCAAGACAGTTGGGTGAAGT 3717
QY 961 TGCATCCTTTGGGGCAGTAACATTTGAGCCAGTGTCCGAGCTGCTTCCAATTTGCTAA 1020
DB 3718 TGCATCCTTTGGGGCAGTAACATTTGAGCCAGTGTCCGAGCTGCTTCCAATTTGCTAA 3777
QY 1021 TAATAAGCCAGATCGAAGCGGCCCTTCTAGACTGATGAGACTGAAACCCAGTC 1080
DB 3778 TAATAAGCCAGATCGAAGCGGCCCTTCTAGACTGATGAGACTGAAACCCAGTC 3837
QY 1081 CATGTGTGCTGCGCCCTCTGACACAGAGTGGCTGTCAGAAACTGCCAAGCATCAGGC 1140
DB 3838 CATGTGTGCTGCGCCCTCTGACACAGAGTGGCTGTCAGAAACTGCCAAGCATCAGGC 3897
QY 1141 CAAATGTAACATCTGCAAAAGAGTGTCCAATTTGATTGAGTTACAGAGTCTTAAAGCA 1200
DB 3898 CAAATGTAACATCTGCAAAAGAGTGTCCAATTTGATTGAGTTACAGAGTCTTAAAGCA 3957
QY 1201 CTTTAATTATGACATCTGCCAAAGCTGTTTTTTCTGCTGAGTTGCAAAAGGCCATAA 1260
DB 3958 CTTTAATTATGACATCTGCCAAAGCTGTTTTTTCTGCTGAGTTGCAAAAGGCCATAA 4017
QY 1261 AATGCACTATCCATGGTGAATATTTGCACTCCGACTACATCAGAGAAAGATGTCGAGA 1320
DB 4018 AATGCACTATCCATGGTGAATATTTGCACTCCGACTACATCAGAGAAAGATGTCGAGA 4077
QY 1321 CTTTGCCAAGTACTAAAAACAATTTTCCAAACCAAAAGTATTTTGCGAAGCATCCCCG 1380
DB 4078 CTTTGCCAAGTACTAAAAACAATTTTCCAAACCAAAAGTATTTTGCGAAGCATCCCCG 4137
QY 1381 AATGGCTACTCTGCCAGTGCAGACTGTCTTGAAGGGGACCAACATGGAATCTCCGACAC 1440
DB 4138 AATGGCTACTCTGCCAGTGCAGACTGTCTTGAAGGGGACCAACATGGAATCTCCGACAC 4197
QY 1441 AATGTAG 1447
DB 4198 AATGTAG 4204

RESULT 8
US-09-845-416-31
Sequence 31, Application US/09845416
Publication No. US20030171312A1
GENERAL INFORMATION:
APPLICANT: XIAO, XIAO
TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
TITLE OF INVENTION: THEREOF
FILE REFERENCE: DE1142
CURRENT APPLICATION NUMBER: US/09/845,416
CURRENT FILING DATE: 2001-04-30
PRIOR APPLICATION NUMBER: 60/200,777
PRIOR FILING DATE: 2000-04-28
NUMBER OF SEQ ID NOS: 36
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 31
LENGTH: 4476
TYPE: DNA
ORGANISM: Homo sapiens
US-09-845-416-31

Query Match 100.0%; Score 1447; DB 10; Length 4476;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1447; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 GACCCCTGAAAGACTCCAGAACTTCAAGAGGCCAGGATGAGCTGAGCTCAAGCTGCG 60
DB 2820 GACCCCTGAAAGACTCCAGAACTTCAAGAGGCCAGGATGAGCTGAGCTCAAGCTGCG 2879

QY 61 CCAAGCTGAGGNGATCAAGGATCTCTGGCAGCCCGTGGCGATCTCCTCATTTGACTCTCT 120
Db 2880 CCAAGCTGAGGNGATCAAGGATCTCTGGCAGCCCGTGGCGATCTCCTCATTTGACTCTCT 2939
QY 121 CCAAGATCACTCGAGAAAGTCAAGGCACTTCGAGGAGAAATTGCGCTCTGAAAGAGAA 180
Db 2940 CCAAGATCACTCGAGAAAGTCAAGGCACTTCGAGGAGAAATTGCGCTCTGAAAGAGAA 2999
QY 181 CGTAGCCACGTCATGACCTTTGCTCGCCAGCTTACCACTTTGGCATTGAGCTCTCACC 240
Db 3000 CGTAGCCACGTCATGACCTTTGCTCGCCAGCTTACCACTTTGGCATTGAGCTCTCACC 3059
QY 241 GTATTAACCTCAGCACTCTGGAAGACCTGAACACAGATGGAAGCTTCTGCAAGTGCCGT 300
Db 3060 GTATTAACCTCAGCACTCTGGAAGACCTGAACACAGATGGAAGCTTCTGCAAGTGCCGT 3119
QY 301 CGAGGACCGAGTCAGGCACTGCATGAAGCCCAAGGACTTTGGTCCAGCATCTCAGCA 360
Db 3120 CGAGGACCGAGTCAGGCACTGCATGAAGCCCAAGGACTTTGGTCCAGCATCTCAGCA 3179
QY 361 CTTTCTTTCCACGCTGTCTCCAGGGTCCCTGGAGAGAGCCATCTGCCAAACAAGTCC 420
Db 3180 CTTTCTTTCCACGCTGTCTCCAGGGTCCCTGGAGAGAGCCATCTGCCAAACAAGTCC 3239
QY 421 CTACTATATCAACCAAGAGACTCAACAACTTGCTGGAGACCATCCCAAAATGACAGAGCT 480
Db 3240 CTACTATATCAACCAAGAGACTCAACAACTTGCTGGAGACCATCCCAAAATGACAGAGCT 3299
QY 481 CTACCACTTTTAACTGACCTGAATATGTCAAGTTCTGAGCTTATAGAGCTGCCATGAA 540
Db 3300 CTACCACTTTTAACTGACCTGAATATGTCAAGTTCTGAGCTTATAGAGCTGCCATGAA 3359
QY 541 ACTCCGAAGACTGCAGAAAGGCCCTTGCTTGATCTCTGAGCCTGTCAAGTGTGA 600
Db 3360 ACTCCGAAGACTGCAGAAAGGCCCTTGCTTGATCTCTGAGCCTGTCAAGTGTGA 3419
QY 601 TGCCTTGGACCAAGCAACCTCAAGCAAAATGACCAAGCCCATGATATCTCGAGATTAT 660
Db 3420 TGCCTTGGACCAAGCAACCTCAAGCAAAATGACCAAGCCCATGATATCTCGAGATTAT 3479
QY 661 TAATTGTTTGACCACTATTATGACCGCCTGAGCAAGACACAACAATTGGTCAACGT 720
Db 3480 TAATTGTTTGACCACTATTATGACCGCCTGAGCAAGACACAACAATTGGTCAACGT 3539
QY 721 CCCTCTCTGCGTGATATGTCTGAACTGGCTGTGAATGTTATGATACGGAGCAAC 780
Db 3540 CCCTCTCTGCGTGATATGTCTGAACTGGCTGTGAATGTTATGATACGGAGCAAC 3599
QY 781 AGGGAGGATCCGTGCTGTCTTTAAACTGGCATCATTTCCCTGTGTAAGCACATT 840
Db 3600 AGGGAGGATCCGTGCTGTCTTTAAACTGGCATCATTTCCCTGTGTAAGCACATT 3659
QY 841 GGAAGACAAGTACAGATACCTTTTCAAGCAAGTGGAAGTTCAACAGATTGTTGACCA 900
Db 3660 GGAAGACAAGTACAGATACCTTTTCAAGCAAGTGGAAGTTCAACAGATTGTTGACCA 3719
QY 901 GCGCAGGCTGGGCTCTCTTTCATGATTTCTATCCAAATTCCAAGACAGTTGGTGAAGT 960
Db 3720 GCGCAGGCTGGGCTCTCTTTCATGATTTCTATCCAAATTCCAAGACAGTTGGTGAAGT 3779
QY 961 TGCATCCTTTGGGGCAGTAACATGAGCCCAAGTGTCCGAGAGCTCTTCCAATTGCTAA 1020
Db 3780 TGCATCCTTTGGGGCAGTAACATGAGCCCAAGTGTCCGAGAGCTCTTCCAATTGCTAA 3839
QY 1021 TAATAAGCCAGAGATGAAGGCGCTCTTCTAGACTGATGAGACTGGAACCCCAAGTC 1080
Db 3840 TAATAAGCCAGAGATGAAGGCGCTCTTCTAGACTGATGAGACTGGAACCCCAAGTC 3899
QY 1081 CATGCTGTGGCTGCCCTCTCTGCAAGAGTGGCTGTGCAAGAACTGCCAAGCATCAGGC 1140
Db 3900 CATGCTGTGGCTGCCCTCTCTGCAAGAGTGGCTGTGCAAGAACTGCCAAGCATCAGGC 3959

QY 1141 CAATGTAAATCTTGCAAAAGTGTCCAAATCATTTGATTTCAGGTACAGAGCTTAAGCA 1200
Db 3960 CAATGTAAATCTTGCAAAAGTGTCCAAATCATTTGATTTCAGGTACAGAGCTTAAGCA 4019
QY 1201 CTTTAATTATGACATCTGCCAAAGCTGCTTTTCTGTGTGAGTTGCCAAAGCCATAA 1260
Db 4020 CTTTAATTATGACATCTGCCAAAGCTGCTTTTCTGTGTGAGTTGCCAAAGCCATAA 4079
QY 1261 AATGCACTATCCCATGTTGTAATATGCACTCCGACTACATCAGAGAAGATGTTGAGA 1320
Db 4080 AATGCACTATCCCATGTTGTAATATGCACTCCGACTACATCAGAGAAGATGTTGAGA 4139
QY 1321 CTTTCCCAAGGTACTAAAAACAAATTTCGAACCAAAAGGTAATTTGCGAAGCATCCCG 1380
Db 4140 CTTTCCCAAGGTACTAAAAACAAATTTCGAACCAAAAGGTAATTTGCGAAGCATCCCG 4199
QY 1381 AATGGGCTACTGCTCCAGTGCAGACTGTCTTAGAGGGGGAACAATGGAATCTCCGACAC 1440
Db 4200 AATGGGCTACTGCTCCAGTGCAGACTGTCTTAGAGGGGGAACAATGGAATCTCCGACAC 4259
QY 1441 AATGTAG 1447
Db 4260 AATGTAG 4266

RESULT 9
US-09-845-416-30
; Sequence 30, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845,416
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 30
; LENGTH: 4498
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-30

Query Match 100.0%; Score 1447; DB 10; Length 4498;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1447; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 GACCTTGAAGACTCCAGGAATTCAAGAGGCCAGGATGAGCTGAGCTCAAGCTGCG 60
Db 2842 GACCTTGAAGACTCCAGGAATTCAAGAGGCCAGGATGAGCTGAGCTCAAGCTGCG 2901
QY 61 CCAAGCTGAGGTGATCAAGGATCTCTGGCAGCCCGTGGCGATCTCTCATTTGACTCTCT 120
Db 2902 CCAAGCTGAGGTGATCAAGGATCTCTGGCAGCCCGTGGCGATCTCTCATTTGACTCTCT 2961
QY 121 CCAAGATCACTCGAAGAAAGTCAAGGCACTTCGAGGAGAAATTGCGCTCTGAAAGAGAA 180
Db 2962 CCAAGATCACTCGAAGAAAGTCAAGGCACTTCGAGGAGAAATTGCGCTCTGAAAGAGAA 3021
QY 181 CGTAGCCACGTCATGACCTTGCTCGCCAGCTTACCACTTTGGGCAATTCAGCTCTCACC 240
Db 3022 CGTAGCCACGTCATGACCTTGCTCGCCAGCTTACCACTTTGGGCAATTCAGCTCTCACC 3081
QY 241 GTATTAACCTCAGCACTCTGGAAGACCTGGAACACAGATGGAAGCTTCTGCAAGTGCCGT 300
Db 3082 GTATTAACCTCAGCACTCTGGAAGACCTGGAACACAGATGGAAGCTTCTGCAAGTGCCGT 3141
QY 301 CGAGGACCGAGTCAGGCACTGTGATGAAGCCACAGGGAATTTGGTCCAGCATCTCAGCA 360
Db 3142 CGAGGACCGAGTCAGGCACTGTGATGAAGCCACAGGGAATTTGGTCCAGCATCTCAGCA 3201

QY 361 CTTTCTTCCACGCTGTGTCCAGGGTCCCTGGAGAGAGCCATCTCGCCAAACAAAGTGCC 420
 Db 3202 CTTTCTTCCACGCTGTGTCCAGGGTCCCTGGAGAGAGCCATCTCGCCAAACAAAGTGCC 3261
 QY 421 CTACTATATCAACCAAGAGACTCAACCAACTTGTGGGACCATCCCAAAATGACAGAGCT 480
 Db 3262 CTACTATATCAACCAAGAGACTCAACCAACTTGTGGGACCATCCCAAAATGACAGAGCT 3321
 QY 481 CTACCACTCTTACGCTGACCTGTAATATGTCTAGCTTATAGAGACTGCCATGAA 540
 Db 3322 CTACCACTCTTACGCTGACCTGTAATATGTCTAGCTTATAGAGACTGCCATGAA 3381
 QY 541 ACTCCGAAGACTGAGAAAGGCCCTTGTGCTGATCTTGAAGCTGTGACGCTGATGTA 600
 Db 3382 ACTCCGAAGACTGAGAAAGGCCCTTGTGCTGATCTTGAAGCTGTGACGCTGATGTA 3441
 QY 601 TGCCTTGACACGACCAACCTCAAGCAAAATGACAGCCCATGATATCTGAGATTAT 660
 Db 3442 TGCCTTGACACGACCAACCTCAAGCAAAATGACAGCCCATGATATCTGAGATTAT 3501
 QY 661 TAATTGTTGACCACTATTATATGACCGCCCTGGAGCAAGACACAACTTTGTCAACGT 720
 Db 3502 TAATTGTTGACCACTATTATATGACCGCCCTGGAGCAAGACACAACTTTGTCAACGT 3561
 QY 721 CCCTCTCTGCGTGATATGTGTCTGAAGCTGCTGTAATGTTATGATACGGGACGAAC 780
 Db 3562 CCCTCTCTGCGTGATATGTGTCTGAAGCTGCTGTAATGTTATGATACGGGACGAAC 3621
 QY 781 AGGAGGATCCGTCTCTGTCTTTTAAACTGGCATCTTCCCTGTGTAAAGCACATTT 840
 Db 3622 AGGAGGATCCGTCTCTGTCTTTTAAACTGGCATCTTCCCTGTGTAAAGCACATTT 3681
 QY 841 GGAAGACAACTACAGATACTTTTCAAGCAAGTGGCAAGTTCAACAGATTGTGACCA 900
 Db 3682 GGAAGACAACTACAGATACTTTTCAAGCAAGTGGCAAGTTCAACAGATTGTGACCA 3741
 QY 901 GCGCAGGCTGGGCTCTCTTCTGATGATTCTTCAAAATTCGAAGACAGTTGGTGAAGT 960
 Db 3742 GCGCAGGCTGGGCTCTCTTCTGATGATTCTTCAAAATTCGAAGACAGTTGGTGAAGT 3801
 QY 961 TGCATCCTTTGGGGGAGTAACATTTAGGCCAAAGTCCGAGCTGCTTCAATTGCTAA 1020
 Db 3802 TGCATCCTTTGGGGGAGTAACATTTAGGCCAAAGTCCGAGCTGCTTCAATTGCTAA 3861
 QY 1021 TAATAAGCCAGAGATCGAAGCGGCCCTCTTCTAGACTGAGTGAAGTGAAGTCCAGTC 1080
 Db 3862 TAATAAGCCAGAGATCGAAGCGGCCCTCTTCTAGACTGAGTGAAGTGAAGTCCAGTC 3921
 QY 1081 CATGCTGTGCTGCCCTCTGACAGAGTGGCTGCAAGAACTGCCAAGCATCAGGC 1140
 Db 3922 CATGCTGTGCTGCCCTCTGACAGAGTGGCTGCAAGAACTGCCAAGCATCAGGC 3981
 QY 1141 CAAATGTAACTCTGCAAAAGAGTGTCCAATCATTTGATTCAAGTACAGAGTCTAAAGCA 1200
 Db 3982 CAAATGTAACTCTGCAAAAGAGTGTCCAATCATTTGATTCAAGTACAGAGTCTAAAGCA 4041
 QY 1201 CTTTAATTATGACATCTGCCAAAGCTGCTTTTCTGCTGAGTTGCAAAAGGCCATTA 1260
 Db 4042 CTTTAATTATGACATCTGCCAAAGCTGCTTTTCTGCTGAGTTGCAAAAGGCCATTA 4101
 QY 1261 AATGACATATCCATGCTGTAATATTTGACCTCGACTACATCAGAGAGAAATGTTGAGA 1320
 Db 4102 AATGACATATCCATGCTGTAATATTTGACCTCGACTACATCAGAGAGAAATGTTGAGA 4161
 QY 1321 CTTTGCCAAAGTAAATAAATAATTTGCAACCAAAAGGATTTTGGCAAGCATCCCGC 1380
 Db 4162 CTTTGCCAAAGTAAATAAATAATTTGCAACCAAAAGGATTTTGGCAAGCATCCCGC 4221
 QY 1381 AATGGGCTACCTGCGACAGTGAAGTGTCTTGAAGGGGACACACATGGAATCCCGACAC 1440
 Db 4222 AATGGGCTACCTGCGACAGTGAAGTGTCTTGAAGGGGACACACATGGAATCCCGACAC 4281

QY 1441 AATGTAG 1447
 Db 4282 AATGTAG 4288

RESULT 10
 US-09-845-416-29
 ; Sequence 29, Application US/09845416
 ; Publication No. US20030171312A1
 ; GENERAL INFORMATION:
 ; APPLICANT: XIAO, XIAO
 ; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
 ; FILE REFERENCE: THEREOF
 ; CURRENT APPLICATION NUMBER: US/09/845,416
 ; PRIORITY FILING DATE: 2001-04-30
 ; PRIOR APPLICATION NUMBER: 60/200,777
 ; NUMBER OF SEQ ID NOS: 36
 ; SOFTWARE: PatentIn Ver. 2.1
 ; SEQ ID NO 29
 ; LENGTH: 4825
 ; TYPE: DNA
 ; ORGANISM: Homo sapiens
 ; US-09-845-416-29

Query Match 100.0%; Score 1447; DB 10; Length 4825;
 Best Local Similarity 100.0%; Pred. No. 0;
 Matches 1447; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GACCCTGAAAGACTCCAGAACTTCAAGAGGCCACGGATGAGCTGGACCTCAAGCTGCG 60
 Db 3169 GACCCTGAAAGACTCCAGAACTTCAAGAGGCCACGGATGAGCTGGACCTCAAGCTGCG 3228
 QY 61 CCAAGCTGAGGTGATCAAGGATCTGGGAGCCCGTGGCGATCTCTCATTTGACTCTCT 120
 Db 3229 CCAAGCTGAGGTGATCAAGGATCTGGGAGCCCGTGGCGATCTCTCATTTGACTCTCT 3288
 QY 121 CCAAGATCACTCGAAGAAAGTCAAGGCACTTGAAGAGAAATTCGCCCTGAAAGAGAA 180
 Db 3289 CCAAGATCACTCGAAGAAAGTCAAGGCACTTGAAGAGAAATTCGCCCTGAAAGAGAA 3348
 QY 181 CGTAGCCAGTCAATGACCTTGCTGCGACCTTACCACTTTGGGCAATTCAGCTCTCACC 240
 Db 3349 CGTAGCCAGTCAATGACCTTGCTGCGACCTTACCACTTTGGGCAATTCAGCTCTCACC 3408
 QY 241 GTATTAACCTCAACAATCTGGAAGACCTGAACAACAGATGGAAGCTTGTCAAGTGGCCGT 300
 Db 3409 GTATTAACCTCAACAATCTGGAAGACCTGAACAACAGATGGAAGCTTGTCAAGTGGCCGT 3468
 QY 301 CGAGGACCGAGTCAAGGAGCTGATGAAGCCCAAGGACTTGTGCAAGATCTCAGCA 360
 Db 3469 CGAGGACCGAGTCAAGGAGCTGATGAAGCCCAAGGACTTGTGCAAGATCTCAGCA 3528
 QY 361 CTTTCTTCCAGTCTGTCCAGGGTCCCTGGGAGAGAGCCATCTGCCAAACAAAGTGCC 420
 Db 3529 CTTTCTTCCAGTCTGTCCAGGGTCCCTGGGAGAGAGCCATCTGCCAAACAAAGTGCC 3588
 QY 421 CTACTATATCAACCAAGAGACTCAACCAACTTGTGGGACCATCCCAAAATGACAGAGCT 480
 Db 3589 CTACTATATCAACCAAGAGACTCAACCAACTTGTGGGACCATCCCAAAATGACAGAGCT 3648
 QY 481 CTACCACTCTTACGCTGACCTGTAATATGTCAAGTCTCAAGCTTATAGAGACTGCCATGAA 540
 Db 3649 CTACCACTCTTACGCTGACCTGTAATATGTCAAGTCTCAAGCTTATAGAGACTGCCATGAA 3708
 QY 541 ACTCCGAAGACTGAGAAAGGCCCTTGTGCTGATCTTGAAGCTGTGACGCTGATGTA 600
 Db 3709 ACTCCGAAGACTGAGAAAGGCCCTTGTGCTGATCTTGAAGCTGTGACGCTGATGTA 3768
 QY 601 TGCCTTGACACGACCAACCTCAAGCAAAATGACAGCCCATGATATCTGAGATTAT 660
 Db 3769 TGCCTTGACACGACCAACCTCAAGCAAAATGACAGCCCATGATATCTGAGATTAT 3828

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QY 661 TAATTGTTGACCACTATTATGACCCGCTGGAGCAAGAGACAACAATTGGTCAAGT 720
DB 3829 TAATTGTTGACCACTATTATGACCCGCTGGAGCAAGAGACAACAATTGGTCAAGT 3888
QY 721 CCTCTCTGCGTGATATGTGTCTGAAGTGGCTGCTGAATGTTATGATACGGAGCAAC 780
DB 3889 CCTCTCTGCGTGATATGTGTCTGAAGTGGCTGCTGAATGTTATGATACGGAGCAAC 3948
QY 781 AGGAGAGATCCGTGCTCTCTTTAAACTGGCATCATTTCCCTGTGTAAGCAATTT 840
DB 3949 AGGAGAGATCCGTGCTCTCTTTAAACTGGCATCATTTCCCTGTGTAAGCAATTT 4008
QY 841 GGAAGACAAGTACAGATACCTTTTCAAGCAAGTGGCAAGTCAACAGATTTGTGACCA 900
DB 4009 GGAAGACAAGTACAGATACCTTTTCAAGCAAGTGGCAAGTCAACAGATTTGTGACCA 4068
QY 901 GCGCAGGCTGGGCTCCTCTTCATGATTTCTATCCAAATTCGAAGCAAGTGGTGAAGT 960
DB 4069 GCGCAGGCTGGGCTCCTCTTCATGATTTCTATCCAAATTCGAAGCAAGTGGTGAAGT 4128
QY 961 TGCATCCTTTGGGGGCAATACATTGAGCCAAAGTGTCCGAGCTGCTCCAATTTGCTAA 1020
DB 4129 TGCATCCTTTGGGGGCAATACATTGAGCCAAAGTGTCCGAGCTGCTCCAATTTGCTAA 4188
QY 1021 TAATAAGCCAGAGATGAAAGCGGCTCTCTAGACTGATGAGACTGGAACCCCACTC 1080
DB 4189 TAATAAGCCAGAGATGAAAGCGGCTCTCTAGACTGATGAGACTGGAACCCCACTC 4248
QY 1081 CATGCTGTGCTGCTGCTCTGACAGAGTGGCTGCTGCAAGAACTGCCAAGCATCAGGC 1140
DB 4249 CATGCTGTGCTGCTGCTCTGACAGAGTGGCTGCTGCAAGAACTGCCAAGCATCAGGC 4308
QY 1141 CAAATGTAACATCTGCAGAGAGTGTCCAATCATTTGATTCAGGTACAGAGTCTAAAGCA 1200
DB 4309 CAAATGTAACATCTGCAGAGAGTGTCCAATCATTTGATTCAGGTACAGAGTCTAAAGCA 4368
QY 1201 CTTTAATTATGACATCTGCCAAAGCTGCTTTTCTGCTGAGTTCGAAAGGCCATTA 1260
DB 4369 CTTTAATTATGACATCTGCCAAAGCTGCTTTTCTGCTGAGTTCGAAAGGCCATTA 4428
QY 1261 AATGCACTATCCCATGCTGTAATTTGCACTCCGACTACATCAGAGAGATGTTGAGA 1320
DB 4429 AATGCACTATCCCATGCTGTAATTTGCACTCCGACTACATCAGAGAGATGTTGAGA 4488
QY 1321 CTTTGCCAAAGTACTAATAAACAATTTGCAACCAAAAGTATTTGCGAAGCATCCCG 1380
DB 4489 CTTTGCCAAAGTACTAATAAACAATTTGCAACCAAAAGTATTTGCGAAGCATCCCG 4548
QY 1381 AATGGGCTACCTGCCAGTGCAGACTGTCTTGAAGGGGGAACAATGAAACTCCCGAC 1440
DB 4549 AATGGGCTACCTGCCAGTGCAGACTGTCTTGAAGGGGGAACAATGAAACTCCCGAC 4608
QY 1441 AATGTAG 1447
DB 4609 AATGTAG 4615
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RESULT 11

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US-09-845-416-35
; Sequence 35, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; FILE REFERENCE: THEREOF
; CURRENT APPLICATION NUMBER: US/09/845,416
; PRIOR FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
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; SEQ ID NO 35
; LENGTH: 4848
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-35
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Query Match 100.0%; Score 1447; DB 10; Length 4848;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1447; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY 1 GACCCCTGAAAGACTCCAGAACTTCAAGAGGCCACCGATGAGCTGGACCTCAAGCTCG 60
DB 3192 GACCCCTGAAAGACTCCAGAACTTCAAGAGGCCACCGATGAGCTGGACCTCAAGCTCG 3251
QY 61 CCAAGCTGAGGTGATCAAGGATCCTGGACAGCCCGTGGCGATCTCTCATTTGACTCTCT 120
DB 3252 CCAAGCTGAGGTGATCAAGGATCCTGGACAGCCCGTGGCGATCTCTCATTTGACTCTCT 3311
QY 121 CCAAGATCACTCGAGAAAGTCAAGGCACTTCGAGAGAAATTCGCGCTCGAAAGAGAA 180
DB 3312 CCAAGATCACTCGAGAAAGTCAAGGCACTTCGAGAGAAATTCGCGCTCGAAAGAGAA 3371
QY 181 CGTAGGCCACGTCAATGACCTTGCTCGCCAGCTTACCACTTTGGGCATTCAGCTCTCACC 240
DB 3372 CGTAGGCCACGTCAATGACCTTGCTCGCCAGCTTACCACTTTGGGCATTCAGCTCTCACC 3431
QY 241 GTATTAACCTCAGCACTTGGAAAGACCTGAAACCAAGATGGAAGCTTCTGACAGTGGCCGT 300
DB 3432 GTATTAACCTCAGCACTTGGAAAGACCTGAAACCAAGATGGAAGCTTCTGACAGTGGCCGT 3491
QY 301 CGAGAACCGAGTCAGGCACTGCATGAGGCCACAGAGGACTTTGGTCCAGCATCTCAGCA 360
DB 3492 CGAGAACCGAGTCAGGCACTGCATGAGGCCACAGAGGACTTTGGTCCAGCATCTCAGCA 3551
QY 361 CTTTCTTTCCACGCTGTCTCCAGGGTCCCTGGGAGAGAGGCCATCTGCCAAACAAAGTGC 420
DB 3552 CTTTCTTTCCACGCTGTCTCCAGGGTCCCTGGGAGAGAGGCCATCTGCCAAACAAAGTGC 3611
QY 421 CTACTATATCAACCAAGAGACTCAAACTTGTCTGGGACATCCCAAAATGACAGAGCT 480
DB 3612 CTACTATATCAACCAAGAGACTCAAACTTGTCTGGGACATCCCAAAATGACAGAGCT 3671
QY 481 CTACCAAGCTTTAAGCTGACCTGAATATATGTCAAGATTTCAAGCTTATAGAGCTGCCATGAA 540
DB 3672 CTACCAAGCTTTAAGCTGACCTGAATATATGTCAAGATTTCAAGCTTATAGAGCTGCCATGAA 3731
QY 541 ACTCCGAAGACTGCAGAAAGCCCTTGTCTTGGATCTTTGAGCCTGTGACCTGCATGTGA 600
DB 3732 ACTCCGAAGACTGCAGAAAGCCCTTGTCTTGGATCTTTGAGCCTGTGACCTGCATGTGA 3791
QY 601 TGCCTTGGACCAAGCAAACTCAAGCAAAATGACCAAGCCCATGATATTCCTGCAGATTAT 660
DB 3792 TGCCTTGGACCAAGCAAACTCAAGCAAAATGACCAAGCCCATGATATTCCTGCAGATTAT 3851
QY 661 TAAATGTTGACCACTAATTATGACCCGCTGGAGCAAGAGCAACAATTGGTCAACGT 720
DB 3852 TAAATGTTGACCACTAATTATGACCCGCTGGAGCAAGAGCAACAATTGGTCAACGT 3911
QY 721 CCTCTCTGCGTGATATGTGTCTGAAGTGGCTGCTGAATGTTATGATACGGAGCAAC 780
DB 3912 CCTCTCTGCGTGATATGTGTCTGAAGTGGCTGCTGAATGTTATGATACGGAGCAAC 3971
QY 781 AGGAGAGATCCGTGCTCTCTTTAAACTGGCATCATTTCCCTGTGTAAGCAATTT 840
DB 3972 AGGAGAGATCCGTGCTCTCTTTAAACTGGCATCATTTCCCTGTGTAAGCAATTT 4031
QY 841 GGAAGACAAGTACAGATACCTTTTCAAGCAAGTGGCAAGTCAACAGATTTGTGACCA 900
DB 4032 GGAAGACAAGTACAGATACCTTTTCAAGCAAGTGGCAAGTCAACAGATTTGTGACCA 4091
QY 901 GCGCAGGCTGGGCTCCTCTTCATGATTTCTATCCAAATTCGAAGACAGTGGTGAAGT 960
DB 4092 GCGCAGGCTGGGCTCCTCTTCATGATTTCTATCCAAATTCGAAGACAGTGGTGAAGT 4151
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QY	961	TGCATCCTTTGGGGGCGAGTAACATTGAGCCCAAGTGTCCGGAGCTGCTTCCAAATTGGCTAA	1020
Db	4152	TGCATCCTTTGGGGGCGAGTAACATTGAGCCCAAGTGTCCGGAGCTGCTTCCAAATTGGCTAA	4211
QY	1021	TAATAAGCCAGAGATCGAAGCGGCCCTCTTCTAGACTGGATGAGACTGGAACCCCACTC	1080
Db	4212	TAATAAGCCAGAGATCGAAGCGGCCCTCTTCTAGACTGGATGAGACTGGAACCCCACTC	4271
QY	1081	CATGCTGTGGCTGCCCGTCCCTGCACAGAGTGGCTGCTGCAGAAACTGCCAAGCATCAGCC	1140
Db	4272	CATGCTGTGGCTGCCCGTCCCTGCACAGAGTGGCTGCTGCAGAAACTGCCAAGCATCAGCC	4331
QY	1141	CAAAATGTAAACATCTGCAGAAAGTGTCCAAATCATTTGATTGAGGTAACAGGAGTCTTAAACA	1200
Db	4332	CAAAATGTAAACATCTGCAGAAAGTGTCCAAATCATTTGATTGAGGTAACAGGAGTCTTAAACA	4391
QY	1201	CTTTAATTATGACATCTGCCAAAGCTGCTTTTTTTCTGGTCGAGTTGCAGAAAGGCCATAA	1260
Db	4392	CTTTAATTATGACATCTGCCAAAGCTGCTTTTTTTCTGGTCGAGTTGCAGAAAGGCCATAA	4451
QY	1261	AATGCACATACTCCCATGTGTGGAATATTGCACTCCGACTACATCAGAGAAAGATGTTGAGA	1320
Db	4452	AATGCACATACTCCCATGTGTGGAATATTGCACTCCGACTACATCAGAGAAAGATGTTGAGA	4511
QY	1321	CTTTGCCAAGGTACTTAAAAACAATTTGCAACCAAAAGTATTTTGGCAAGCATCCCG	1380
Db	4512	CTTTGCCAAGGTACTTAAAAACAATTTGCAACCAAAAGTATTTTGGCAAGCATCCCG	4571
QY	1381	AATGGGCTACCTGCCAGTGCAGACTGTCTTAGAGGGGGGCAACAATGGAACCTCCCGCAC	1440
Db	4572	AATGGGCTACCTGCCAGTGCAGACTGTCTTAGAGGGGGGCAACAATGGAACCTCCCGCAC	4631
QY	1441	AATGTAG 1447	
Db	4632	AATGTAG 4638	

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RESULT 12
US-09-845-416-28
; Sequence 28, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: DEL142
; CURRENT APPLICATION NUMBER: US/09/845,416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 28
;
; LENGTH: 4966
;
; TYPE: DNA
;
; ORGANISM: Homo sapiens
US-09-845-416-28

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	Query Match	Best Local Similarity	Score 1447;	Pred. No. 0;	Mismatches 0;	Indels 0;	Gaps 0;
Qy	1	GACCCTTGAAAGACTCCAGGAAC	TTCAAGAGGCCACCGATGAGCTG	GACCTCAAGCTGGC	60		
Db	3310	GACCCTTGAAAGACTCCAGGAAC	TTCAAGAGGCCACCGATGAGCTG	GACCTCAAGCTGGC	3369		
Qy	61	CCAAGCTGAGGTGATCAAGGGA	TCTTGCAGCCCCTGGGCGATTCT	CCTCATTTGACTTCT	120		
Db	3370	CCAAGCTGAGGTGATCAAGGGA	TCTTGCAGCCCCTGGGCGATTCT	CCTCATTTGACTTCT	3429		
Qy	121	CCAAGATCACCTCGAAGAAGT	CAAGGCACCTTCAGAGAGAAAT	TGCGCCTCTGAAGAAGAA	180		

D	b		3430	CCAAGATCACCTTGGAGAAAAGTCAAAGGCACCTTCGAGGAGAATAATTGCCCTCTGAAAAAGAA	3489
O	y		181	CGTAGCCACGTCAATGACCCTTGCTGGCCAGCTTAACACTTTGGGCATTCAGCTCTCACC	240
D	b		3490	CGTAGCCACGTCAATGACCCTTGCTGGCCAGCTTAACACTTTGGGCATTCAGCTCTCACC	3549
O	y		241	GTATAACCTCAGCACTCTGGAAGACCTGAACAACAGATGGAAGCTTCTGCAAGTGGCCGT	300
D	b		3550	GTATAACCTCAGCACTCTGGAAGACCTGAACAACAGATGGAAGCTTCTGCAAGTGGCCGT	3609
O	y		301	CGAGGACCCGAGTCAGGCGCAGCTGCATGAAGCCCAAGGGACTTTGGTCCAACATCTCAGCA	360
D	b		3610	CGAGGACCCGAGTCAGGCGCAGCTGCATGAAGCCCAAGGGACTTTGGTCCAACATCTCAGCA	3669
O	y		361	CTTTCTTTCCACGCTGTCTCCAGGGTCCCTGGGAGAGAGCCATCTGCCAACAAGTGCC	420
D	b		3670	CTTTCTTTCCACGCTGTCTCCAGGGTCCCTGGGAGAGAGCCATCTGCCAACAAGTGCC	3729
O	y		421	CTACTATATCAACCAAGAGACTCAAACAACCTGCTGGGACCATCCCAAAATGACAGAGCT	480
D	b		3730	CTACTATATCAACCAAGAGACTCAAACAACCTGCTGGGACCATCCCAAAATGACAGAGCT	3789
O	y		481	CTACCAGTCTTACGTGACCTGAATATGTTCAGATTCTCAGCTTATAGACTGCCATGAA	540
D	b		3790	CTACCAGTCTTACGTGACCTGAATATGTTCAGATTCTCAGCTTATAGACTGCCATGAA	3849
O	y		541	ACTCCGAAGACTGCAAGAAAGGCCCTTGCTTGGATCTCTGAGCCGTGCAGCTGCATGTGA	600
D	b		3850	ACTCCGAAGACTGCAAGAAAGGCCCTTGCTTGGATCTCTGAGCCGTGCAGCTGCATGTGA	3909
O	y		601	TGCCCTTGACCAAGACAACCTCAAGCAAAAAGACCAAGCCCATGATATCCTGCAGATTAT	660
D	b		3910	TGCCCTTGACCAAGACAACCTCAAGCAAAAAGACCAAGCCCATGATATCCTGCAGATTAT	3969
O	y		661	TAATGTTTGACCACTATTATATGACCGGCTTGGAGCAAGAGACACAACAATTGGTCAACGT	720
D	b		3970	TAATGTTTGACCACTATTATATGACCGGCTTGGAGCAAGAGACACAACAATTGGTCAACGT	4029
O	y		721	CCCTCTCTGCGTGATATGTGTCTGAACCTGCTGTAATGTTATGATACGGGACGAAC	780
D	b		4030	CCCTCTCTGCGTGATATGTGTCTGAACCTGCTGTAATGTTATGATACGGGACGAAC	4089
O	y		781	AGGAGATCCGTGTCTGTCTTTAAAACTGGCATCATTTCCCTGTGTAAAGCACATTT	840
D	b		4090	AGGAGATCCGTGTCTGTCTTTAAAACTGGCATCATTTCCCTGTGTAAAGCACATTT	4149
O	y		841	GGAAGACAAGTACAGATAACCTTTTCAAGCAAGTGCCAAAGTTCAACAGATTTTGTGACCA	900
D	b		4150	GGAAGACAAGTACAGATAACCTTTTCAAGCAAGTGCCAAAGTTCAACAGATTTTGTGACCA	4209
O	y		901	GCGCAGGCTGGGCTCTTCTGATGATTCTATCCAATTTCCAAGACAGTTGGGTGAAGT	960
D	b		4210	GCGCAGGCTGGGCTCTTCTGATGATTCTATCCAATTTCCAAGACAGTTGGGTGAAGT	4269
O	y		961	TGCATCCTTTGGGGCAGTAACATTTGAGCCAAAGTGTCCGAGCTGCTTCCAATTTGCTAA	1020
D	b		4270	TGCATCCTTTGGGGCAGTAACATTTGAGCCAAAGTGTCCGAGCTGCTTCCAATTTGCTAA	4329
O	y		1021	TAATTAAGCCAGATCGAAGCGGCCCCCTTCTTAAGACTGGATGAGACTGGAACCCCAAGTC	1080
D	b		4330	TAATTAAGCCAGATCGAAGCGGCCCCCTTCTTAAGACTGGATGAGACTGGAACCCCAAGTC	4389
O	y		1081	CATGCTGTGGCTGGCTCTCTGACAGAGTGGCTGTCAGAAACTGCCAAGCATCAGGC	1140
D	b		4390	CATGCTGTGGCTGGCTCTCTGACAGAGTGGCTGTCAGAAACTGCCAAGCATCAGGC	4449
O	y		1141	CAAAATGAACATCTGAAAAGAGTGTCCAATCATTTGATTGAGTTACGTTACAGAGTCTAAAGCA	1200
D	b		4450	CAAAATGAACATCTGAAAAGAGTGTCCAATCATTTGATTGAGTTACGAGTCTAAAGCA	4509
O	y		1201	CTTTAATTATGACATCTGCCAAAGCTGCTTTTTTCTGCTCGAGTTGCAAAAGGCCATTA	1260
D	b		4510	CTTTAATTATGACATCTGCCAAAGCTGCTTTTTTCTGCTCGAGTTGCAAAAGGCCATTA	4569

[illegible]

```

RESULT 13
US-09-845-416-34
; Sequence 34, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845,416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 34
; LENGTH: 4990
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-34

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Query Match	100.0%;	Score 1447;	DB 10;	Length 4990;
Best Local Similarity	100.0%;	Pred. No. 0;		
Matches 1447; Conservative	0;	Mismatches	0;	Indels 0;
				Gaps 0;

QY	1	GACCCCTGAAAGACTCCAGGAACTTCAAGAGGCCACCGATGAGCTGGAACCTCAAGCTGCG	60
Db	3334	GACCCCTGAAAGACTCCAGGAACTTCAAGAGGCCACCGATGAGCTGGAACCTCAAGCTGCG	3393
QY	61	CCAAGCTGAGGTGATCAAGGGATCTTGCGAGCCCGTGGCGGATCTCCTCATTTGACTCTCT	120
Db	3394	CCAAGCTGAGGTGATCAAGGGATCTTGCGAGCCCGTGGCGGATCTCCTCATTTGACTCTCT	3453
QY	121	CCAAGATCACCTCGAAGAACTCAAGGCACTTCGAGGAGAAATTGCGCCTCTGAAAGAGAA	180
Db	3454	CCAAGATCACCTCGAAGAACTCAAGGCACTTCGAGGAGAAATTGCGCCTCTGAAAGAGAA	3513
QY	181	CGTGAGCCACGTCATGACTTGTCTGCGCCAGCTTACCACTTTGGGCATTGAGCTCTCACC	240
Db	3514	CGTGAGCCACGTCATGACTTGTCTGCGCCAGCTTACCACTTTGGGCATTGAGCTCTCACC	3573
QY	241	GTATTAACCTCAGCACTCTGGAAGACCTGAAACACCAGATGGAAGCTTCTGCAGGTGGCGT	300
Db	3574	GTATTAACCTCAGCACTCTGGAAGACCTGAAACACCAGATGGAAGCTTCTGCAGGTGGCGT	3633
QY	301	CGAGGACCGAGTCAAGCAGCTGCATGAAGCCCAAGGACTTTTGGTCCAGCATCTCAGCA	360
Db	3634	CGAGGACCGAGTCAAGCAGCTGCATGAAGCCCAAGGACTTTTGGTCCAGCATCTCAGCA	3693
QY	361	CTTCTTTTCCACGTCGTCTGTCAGGGGTCCCTGGGAGAGAGCATCTCGCCAAACAAAGTGCC	420
Db	3694	CTTCTTTTCCACGTCGTCTGTCAGGGGTCCCTGGGAGAGAGCATCTCGCCAAACAAAGTGCC	3753
QY	421	CTACTATATCAACCAAGAGACTCAAAACAATTGCTGGGACCATCCAAATGACAGAGCT	480

Db	3754	CTACTATATCAACCCAGAGACTCAACAACTTGGCTGGGACCATTCCCAAAATGACAGAGCT	3813
QY	481	CTACCAAGTCTTTAGCTGACCTGAATATGTCAGATTTCTCAGCTTATAGGACTGCCATGAA	540
Db	3814	CTACCAAGTCTTTAGCTGACCTGAATATGTCAGATTTCTCAGCTTATAGGACTGCCATGAA	3873
QY	541	ACTCCGAAGACTGCAGAAAGGCCCTTGGCTTGGATCTCTGAGCCTGTCAAGCTGCATGTGA	600
Db	3874	ACTCCGAAGACTGCAGAAAGGCCCTTGGCTTGGATCTCTGAGCCTGTCAAGCTGCATGTGA	3933
QY	601	TGCCTTGGACCGACACAACCTCAAGCAAAATGACCAAGCCCATGGATATCCTGCAGATTAT	660
Db	3934	TGCCTTGGACCGACACAACCTCAAGCAAAATGACCAAGCCCATGGATATCCTGCAGATTAT	3993
QY	661	TAATTTGTTGACCACTATTATGACCGCTGGAGCAAGACACAACAATTTGGTCAACGT	720
Db	3994	TAATTTGTTGACCACTATTATGACCGCTGGAGCAAGACACAACAATTTGGTCAACGT	4053

QY	721	CCCTCTCTGCGTGAGATATGTGTCTGAAC	TGGCTGCTGAATGTTATGATACGGAC	780
Db	4054	CCCTCTCTGCGTGAGATATGTGTCTGAAC	TGGCTGCTGAATGTTATGATACGGAC	4113
QY	781	AGGAGGATCCGTGTCTGTCTTTTAAAC	TGGCATCTTCCGTGTAAAGCATTT	840
Db	4114	AGGAGGATCCGTGTCTGTCTTTTAAAC	TGGCATCTTCCGTGTAAAGCATTT	4173
QY	841	GGAAGACAAGTACAGATACCTTTTCAAG	CAGGTGGCAAGTTCAACAGATTTGTAC	900
Db	4174	GGAAGACAAGTACAGATACCTTTTCAAG	CAGGTGGCAAGTTCAACAGATTTGTAC	4233
QY	901	GCGCAGGCTGGGCTCTTCTGCATGATTT	CTATCCAAATTTCCAAAGACAGTTGGT	960
Db	4234	GCGCAGGCTGGGCTCTTCTGCATGATTT	CTATCCAAATTTCCAAAGACAGTTGGT	4293
QY	961	TGCATCCTTTGGGGGCGAGTAACATTG	AGCCAAAGTCCGGAGCTGCTTCCAATT	1020
Db	4294	TGCATCCTTTGGGGGCGAGTAACATTG	AGCCAAAGTCCGGAGCTGCTTCCAATT	4353
QY	1021	TAATAAGCCAGAGATCGAAGCGGCCCT	CTTCTAGACTGATGAGACTGAAACCC	1080
Db	4354	TAATAAGCCAGAGATCGAAGCGGCCCT	CTTCTAGACTGATGAGACTGAAACCC	4413
QY	1081	CATGCTGTGGCTGCCCGTCTGCACAGAG	TGGCTGTCGAGAACTGCCAAGCATCAG	1140
Db	4414	CATGCTGTGGCTGCCCGTCTGCACAGAG	TGGCTGTCGAGAACTGCCAAGCATCAG	4473
QY	1141	CAATGTAAACATCTGCAAAAGAGTGTCC	AATTCATTGGATTTCAGGTACAGAGTCT	1200
Db	4474	CAATGTAAACATCTGCAAAAGAGTGTCC	AATTCATTGGATTTCAGGTACAGAGTCT	4533
QY	1201	CTTTAATTATGACATCTGCCAAAGCTGT	TTTTTCTGCTGAGTTGCAAAAGGCCAT	1260
Db	4534	CTTTAATTATGACATCTGCCAAAGCTGT	TTTTTCTGCTGAGTTGCAAAAGGCCAT	4593
QY	1261	AATGACACTATCCCATGTGTGAATATTG	CACTCCGACTACATCAGAGAAAGTGTG	1320
Db	4594	AATGACACTATCCCATGTGTGAATATTG	CACTCCGACTACATCAGAGAAAGTGTG	4653
QY	1321	CTTTGCCAAGTACTAAAAAACAAATTTG	CAACCAAAAGTATTTTGGAAAGCATCC	1380
Db	4654	CTTTGCCAAGTACTAAAAAACAAATTTG	CAACCAAAAGTATTTTGGAAAGCATCC	4713
QY	1381	AATGGGCTACTGCTCCAGTGCAGACTGT	CTTTAGAGGGGGACACATGGAAC	1440
Db	4714	AATGGGCTACTGCTCCAGTGCAGACTGT	CTTTAGAGGGGGACACATGGAAC	4773
QY	1441	AATGTAG 1447		
Db	4774	AATGTAG 4780		

RESULT 14
US-09-845-416-36

; Sequence 36, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845,416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 36
; LENGTH: 5060
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-36

Query Match 100.0%; Score 1447; DB 10; Length 5060;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1447; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 GACCCCTGAAAGACTCGAGAACTTCAAGAGGCCACGGATGAGCTGGACCTCAAGCTGCG 60
DB 3404 GACCCCTGAAAGACTCGAGAACTTCAAGAGGCCACGGATGAGCTGGACCTCAAGCTGCG 3463
QY 61 CCAAGCTGAGGTGATCAAGGGATCCTGGCAGCCCGTGGCGATCTCTCATTTGACTCTCT 120
DB 3464 CCAAGCTGAGGTGATCAAGGGATCCTGGCAGCCCGTGGCGATCTCTCATTTGACTCTCT 3523
QY 121 CCAAGATCACCTCGAGAAAGTCAAGGCACTTCGAGAGAAATTGCGCCTTGAAAGAGAA 180
DB 3524 CCAAGATCACCTCGAGAAAGTCAAGGCACTTCGAGAGAAATTGCGCCTTGAAAGAGAA 3583
QY 181 CGTGAGCCACGTCAATGACCTTGCTCGCCAGCTTAACACTTTGGGCATTGAGCTCTCACC 240
DB 3584 CGTGAGCCACGTCAATGACCTTGCTCGCCAGCTTAACACTTTGGGCATTGAGCTCTCACC 3643
QY 241 GTATAACCTCAGCACTCTGGAAGACCTGAACACAGATGGAAGCTTCTGCAAGTGGCCGT 300
DB 3644 GTATAACCTCAGCACTCTGGAAGACCTGAACACAGATGGAAGCTTCTGCAAGTGGCCGT 3703
QY 301 CGAGGACCGAGTCAAGGCACTGTCATGAAGCCCAAGGGACTTTGTCACGATCTCAGCA 360
DB 3704 CGAGGACCGAGTCAAGGCACTGTCATGAAGCCCAAGGGACTTTGTCACGATCTCAGCA 3763
QY 361 CTTTCTTTCCAGCTCTGTCCAGGGTCCCTGGAGAGAGCCATCTCGCCAAACAAAGTGCC 420
DB 3764 CTTTCTTTCCAGCTCTGTCCAGGGTCCCTGGAGAGAGCCATCTCGCCAAACAAAGTGCC 3823
QY 421 CTACTATATCAACCAAGACTCAAAACAATTGCTGGGACCATCCCAAAATGACAGAGCT 480
DB 3824 CTACTATATCAACCAAGACTCAAAACAATTGCTGGGACCATCCCAAAATGACAGAGCT 3883
QY 481 CTACCAAGTCTTAGCTGACCTGAATATGTCAATTTCTCAGCTTATAGACTGCCATGAA 540
DB 3884 CTACCAAGTCTTAGCTGACCTGAATATGTCAATTTCTCAGCTTATAGACTGCCATGAA 3943
QY 541 ACTCCGAAGACTGAGAAAGCCCTTGTCTGGAATCTCTGAGCCCTGTCAGCTGATGTGA 600
DB 3944 ACTCCGAAGACTGAGAAAGCCCTTGTCTGGAATCTCTGAGCCCTGTCAGCTGATGTGA 4003
QY 601 TGCCTTGACCAAGCAAACTCAAGCAAAATGACCAAGCCATGATATCTCGAGATTAT 660
DB 4004 TGCCTTGACCAAGCAAACTCAAGCAAAATGACCAAGCCATGATATCTCGAGATTAT 4063
QY 661 TAATGTTTGACCACTATTATGACCGCCTGAGCAAGACACAACAATTGTCACAGCT 720
DB 4064 TAATGTTTGACCACTATTATGACCGCCTGAGCAAGACACAACAATTGTCACAGCT 4123
QY 721 CCCTCTCTGCGTGAATATGTCTGAACTGGCTGTAATGTTATGATACGGGACGAAC 780

DB 4124 CCCTCTCTGCGTGAATATGTCTGAACTGGCTGTAATGTTATGATACGGGACGAAC 4183
QY 781 AGGAGGATCCGTGCTCTGCTCTTTTAAACTGGCATCATTTCCCTGTGTAAGCACATTT 840
DB 4184 AGGAGGATCCGTGCTCTGCTCTTTTAAACTGGCATCATTTCCCTGTGTAAGCACATTT 4243
QY 841 GGAAGACAAGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCAACAGAGATTTGTGACCA 900
DB 4244 GGAAGACAAGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCAACAGAGATTTGTGACCA 4303
QY 901 GCGCAGCTGGGCTCTCTCTGATGATTTCAATCCAAATTCCAAGACAGTTGGGTGAAGT 960
DB 4304 GCGCAGCTGGGCTCTCTCTGATGATTTCAATCCAAATTCCAAGACAGTTGGGTGAAGT 4363
QY 961 TGCATCCTTTGGGGGCAATACATTGAGCCAAAGTGTCCGAGCTGCTTCCAATTTGCTAA 1020
DB 4364 TGCATCCTTTGGGGGCAATACATTGAGCCAAAGTGTCCGAGCTGCTTCCAATTTGCTAA 4423
QY 1021 TAATAAGCCAGATCGAAGCGGCCCTTCTAGACTGATGAGACTGGAACCCAGTCT 1080
DB 4424 TAATAAGCCAGATCGAAGCGGCCCTTCTAGACTGATGAGACTGGAACCCAGTCT 4483
QY 1081 CATGGTGTGCTGCCCTCTCTGACAGAGTGGCTGTGAGAACTGCCAAGCATCAGGC 1140
DB 4484 CATGGTGTGCTGCCCTCTCTGACAGAGTGGCTGTGAGAACTGCCAAGCATCAGGC 4543
QY 1141 CAATGTAACATCTGCAAAAGAGTGTCCAATCATTTGATTCAAGTACAGAGTCTAAAGCA 1200
DB 4544 CAATGTAACATCTGCAAAAGAGTGTCCAATCATTTGATTCAAGTACAGAGTCTAAAGCA 4603
QY 1201 CTTTAAATTATGACATCTGCCAAAGCTGCTTTTCTGCTGAGTTGCAAAAGGCCATTA 1260
DB 4604 CTTTAAATTATGACATCTGCCAAAGCTGCTTTTCTGCTGAGTTGCAAAAGGCCATTA 4663
QY 1261 AATGACATATCCATGTGTGAATATGCACTCCGACTACATCAGAGAGAGATGTTGAGA 1320
DB 4664 AATGACATATCCATGTGTGAATATGCACTCCGACTACATCAGAGAGAGATGTTGAGA 4723
QY 1321 CTTTGCAAGGTACTAAAAACAATTTGCAACCAAAAGTATTTTGGCAAGCATCCCGG 1380
DB 4724 CTTTGCAAGGTACTAAAAACAATTTGCAACCAAAAGTATTTTGGCAAGCATCCCGG 4783
QY 1381 AATGGCTACTGCTCCAGTGCAGACTGTCTTAGAGGGGGACACACATGAAACTCCCGACAC 1440
DB 4784 AATGGCTACTGCTCCAGTGCAGACTGTCTTAGAGGGGGACACACATGAAACTCCCGACAC 4843
QY 1441 AATGTAG 1447
DB 4844 AATGTAG 4850

RESULT 15
US-09-845-416-27
; Sequence 27, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845,416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 27
; LENGTH: 5149
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-27
Query Match 100.0%; Score 1447; DB 10; Length 5149;

Best Local Similarity 100.0%; Pred. No. 0;
Matches 1447; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY      1 GACCCTTGAAAGACTCCAGGAATTCAGAGGCCACCGATGAGCTGGAACCTCAAGCTGCG 60
Db      3493 GACCCTTGAAAGACTCCAGGAATTCAGAGGCCACCGATGAGCTGGAACCTCAAGCTGCG 3552

QY      61 CCAAGCTGAGGTGATCAAGGGATCTTGGCAGCCCGTGGCGGATCTCTCATTTGACTCTCT 120
Db      3553 CCAAGCTGAGGTGATCAAGGGATCTTGGCAGCCCGTGGCGGATCTCTCATTTGACTCTCT 3612

QY      121 CCAAGATCACTCGAGAAAGTCAAGGCACTTCGAGAGAAATTCGCGCTCTGAAGAGAA 180
Db      3613 CCAAGATCACTCGAGAAAGTCAAGGCACTTCGAGAGAAATTCGCGCTCTGAAGAGAA 3672

QY      181 CGTGAGCCACGTCAATGACCTTGCTGCGCAGCTTACCACCTTGGGCATTCAGCTCTCAC 240
Db      3673 CGTGAGCCACGTCAATGACCTTGCTGCGCAGCTTACCACCTTGGGCATTCAGCTCTCAC 3732

QY      241 GTATAACTCAGCACTCTGGAAGACCTGAAACCAACAGATGGAAGCTTCTGCAAGTGCCGT 300
Db      3733 GTATAACTCAGCACTCTGGAAGACCTGGAAGACCAACAGATGGAAGCTTCTGCAAGTGCCGT 3792

QY      301 CGAGGACCGAGTCAAGGCAAGCTGCATGAAAGCCCAAGGGACTTTGGTCCAGCATCTCAGCA 360
Db      3793 CGAGGACCGAGTCAAGGCAAGCTGCATGAAAGCCCAAGGGACTTTGGTCCAGCATCTCAGCA 3852

QY      361 CTTTCTTTCCACGTCTGTGCCAGGGTCCCTGGGAGAGAGCCATCTGCGCAACAAAGTGCC 420
Db      3853 CTTTCTTTCCACGTCTGTGCCAGGGTCCCTGGGAGAGAGCCATCTGCGCAACAAAGTGCC 3912

QY      421 CTACTATATCAACACGAGACTCAAACTTGCTGGGACCATCCCAAAATGACAGAGCT 480
Db      3913 CTACTATATCAACACGAGACTCAAACTTGCTGGGACCATCCCAAAATGACAGAGCT 3972

QY      481 CTACGAGCTTTAGCTGACCTGAATTAATGTCAATTCTCAGCTTATAGGACTGCCATGAA 540
Db      3973 CTACGAGCTTTAGCTGACCTGAATTAATGTCAATTCTCAGCTTATAGGACTGCCATGAA 4032

QY      541 ACTCCGAAGACTGCAGAAGGCCCTTGCTTGGAATCTCTGAGCCTGTCAGCTGCATGTGA 600
Db      4033 ACTCCGAAGACTGCAGAAGGCCCTTGCTTGGAATCTCTGAGCCTGTCAGCTGCATGTGA 4092

QY      601 TGCCTTGGACCAAGCAACCTCAAGCAAAATGACCAAGCCCATGGAATCTCTGCAGATTAT 660
Db      4093 TGCCTTGGACCAAGCAACCTCAAGCAAAATGACCAAGCCCATGGAATCTCTGCAGATTAT 4152

QY      661 TAATTGTTGACCACTATTATGACCCGCTGGAGCAAGACACAATTTGGTCAACGT 720
Db      4153 TAATTGTTGACCACTATTATGACCCGCTGGAGCAAGACACAATTTGGTCAACGT 4212

QY      721 CCCTCTCGGTGGATATGTGTGAACCTGGCTGCTGAATGTTATGATACGGGACGAAC 780
Db      4213 CCCTCTCGGTGGATATGTGTGAACCTGGCTGCTGAATGTTATGATACGGGACGAAC 4272

QY      781 AGGAGGATCCGTGTCCTGCTTTTAAAACTGGCATCATTTCCCTGTGTAAGACATTT 840
Db      4273 AGGAGGATCCGTGTCCTGCTTTTAAAACTGGCATCATTTCCCTGTGTAAGACATTT 4332

QY      841 GGAAGACAAGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCACAGATTTTGTGACCA 900
Db      4333 GGAAGACAAGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCACAGATTTTGTGACCA 4392

QY      901 GCGCAGGCTGGGCTCTCTTCTGCATGATTCTATCCAAATTCGAAGACATGGGTAAGT 960
Db      4393 GCGCAGGCTGGGCTCTCTTCTGCATGATTCTATCCAAATTCGAAGACATGGGTAAGT 4452

QY      961 TGCATCCTTTGGGGGAGTAACATGAGCCAAGTCCGAGAGCTGCTTCCAAATTTGCTAA 1020
Db      4453 TGCATCCTTTGGGGGAGTAACATGAGCCAAGTCCGAGAGCTGCTTCCAAATTTGCTAA 4512

QY      1021 TAATAAGCCAGAGATCGAAGCGGCCCTTCTCTAGACTGATGAGACTGGAACCCAGTC 1080
Db      1021 TAATAAGCCAGAGATCGAAGCGGCCCTTCTCTAGACTGATGAGACTGGAACCCAGTC 1080
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Db      4513 TAATAAGCCAGAGATCGAAGCGGCCCTTCTCTAGACTGATGAGACTGGAACCCAGTC 4572
QY      1081 CATGTGTGGCTGCCCCGTCCTGACAGAGTGGCTGCTGCAGAACTGCCAAGCATCAGGC 1140
Db      4573 CATGTGTGGCTGCCCCGTCCTGACAGAGTGGCTGCTGCAGAACTGCCAAGCATCAGGC 4632

QY      1141 CAAATGTAAACATCTGCAAAAGTGTCCAATCATTTGATTTCAGGTACAGAGTCTPAAAGCA 1200
Db      4633 CAAATGTAAACATCTGCAAAAGTGTCCAATCATTTGATTTCAGGTACAGAGTCTPAAAGCA 4692

QY      1201 CTTTAAATTATGACATCTGCCAAGCTGCTTTTTTCTGGTGCAGTTGCAAAAGGCCATAA 1260
Db      4693 CTTTAAATTATGACATCTGCCAAGCTGCTTTTTTCTGGTGCAGTTGCAAAAGGCCATAA 4752

QY      1261 AATGCACTATCCCATGTGTGAATATTGCACTCCGACTACATCAGAGAAAGATGTTGAGA 1320
Db      4753 AATGCACTATCCCATGTGTGAATATTGCACTCCGACTACATCAGAGAAAGATGTTGAGA 4812

QY      1321 CTTTGGCAAGGTACTAATAAAACAAATTTGAAACCAAAAGTAATTTGCCAAGCATCCCCG 1380
Db      4813 CTTTGGCAAGGTACTAATAAAACAAATTTGAAACCAAAAGTAATTTGCCAAGCATCCCCG 4872

QY      1381 AATGGCTAACCCTGACAGTGCAGACTGTCTTAGAGGGGACAAATGAAAATCCCGACAC 1440
Db      4873 AATGGCTAACCCTGACAGTGCAGACTGTCTTAGAGGGGACAAATGAAAATCCCGACAC 4932

QY      1441 AATGTAG 1447
Db      4933 AATGTAG 4939
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Job time : 870.096 secs

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: March 2, 2005, 04:16:40 ; Search time 251.835 Seconds
(without alignments)
9401.765 Million cell updates/sec

Title: US-09-845-416-14_COPY_2000_3446

Perfect score: 1447
Sequence: 1 gacccttgaaagactccagg.....aaactccgcacacatgtag 1447

Scoring table: IDENTITY NUC
Gapop 10.0 , Gapext 1.0

Searched: 1202784 seqs, 818138359 residues

Total number of hits satisfying chosen parameters: 2405568

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents NA: *
1: /cgn2_6/ptodata/1/ina/5A_COMB.seq: *
2: /cgn2_6/ptodata/1/ina/5B_COMB.seq: *
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4: /cgn2_6/ptodata/1/ina/6B_COMB.seq: *
5: /cgn2_6/ptodata/1/ina/PCTUS_COMB.seq: *
6: /cgn2_6/ptodata/1/ina/backfiles1.seq: *

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1437.6	99.4	5952	4	US-09-687-875A-1 Sequence 1, Appli
2	1436	99.2	5627	4	US-09-949-016-2831 Sequence 2831, Ap
3	1436	99.2	5627	4	US-09-949-016-2832 Sequence 2832, Ap
4	1436	99.2	7109	4	US-09-949-016-2812 Sequence 2812, Ap
5	1436	99.2	7109	4	US-09-949-016-2813 Sequence 2813, Ap
6	1436	99.2	7109	4	US-09-949-016-2814 Sequence 2814, Ap
7	1436	99.2	7109	4	US-09-949-016-2815 Sequence 2815, Ap
8	1436	99.2	7109	4	US-09-949-016-2816 Sequence 2816, Ap
9	1436	99.2	7109	4	US-09-949-016-2817 Sequence 2817, Ap
10	1436	99.2	7109	4	US-09-949-016-2818 Sequence 2818, Ap
11	1436	99.2	7109	4	US-09-949-016-2819 Sequence 2819, Ap
12	1436	99.2	7109	4	US-09-949-016-2820 Sequence 2820, Ap
13	1436	99.2	7141	4	US-09-949-016-2822 Sequence 2822, Ap
14	1436	99.2	7141	4	US-09-949-016-2823 Sequence 2823, Ap
15	1436	99.2	7141	4	US-09-949-016-2824 Sequence 2824, Ap
16	1436	99.2	7141	4	US-09-949-016-2825 Sequence 2825, Ap
17	1432	99.0	7070	4	US-09-949-016-2804 Sequence 2804, Ap
18	1432	99.0	7070	4	US-09-949-016-2805 Sequence 2805, Ap
19	1432	99.0	7070	4	US-09-949-016-2806 Sequence 2806, Ap
20	1432	99.0	7070	4	US-09-949-016-2807 Sequence 2807, Ap
21	1432	99.0	7070	4	US-09-949-016-2808 Sequence 2808, Ap
22	1432	99.0	7070	4	US-09-949-016-2809 Sequence 2809, Ap
23	1432	99.0	7070	4	US-09-949-016-2810 Sequence 2810, Ap
24	1432	99.0	7070	4	US-09-949-016-2811 Sequence 2811, Ap
25	1426.6	98.6	13977	3	US-09-484-970B-60 Sequence 60, Appli
26	1259.6	87.0	19307	3	US-08-836-022A-10 Sequence 10, Appli
27	1259.6	87.0	19307	3	US-09-427-048A-10 Sequence 10, Appli

28	1001.6	69.2	4556	4	US-09-949-016-2826	Sequence 2826, Ap
29	1001.6	69.2	4556	4	US-09-949-016-2827	Sequence 2827, Ap
30	1001.6	69.2	4556	4	US-09-949-016-2828	Sequence 2828, Ap
31	1001.6	69.2	4556	4	US-09-949-016-2829	Sequence 2829, Ap
32	1001.6	69.2	4556	4	US-09-949-016-2830	Sequence 2830, Ap
33	999	69.0	1571	4	US-09-949-016-2821	Sequence 2821, Ap
34	747	51.6	6045	4	US-09-091-501B-7	Sequence 7, Appli
35	747	51.6	10320	4	US-09-091-501B-9	Sequence 9, Appli
36	679.2	46.9	3499	4	US-09-949-016-276	Sequence 276, Appl
37	677.6	46.8	3498	4	US-09-949-016-1359	Sequence 1359, Ap
38	668.4	46.2	3915	4	US-09-976-594-93	Sequence 93, Appl
39	203	14.0	92387	4	US-09-949-016-14563	Sequence 14563, A
40	203	14.0	151295	4	US-09-949-016-14568	Sequence 14568, A
41	203	14.0	151295	4	US-09-949-016-14569	Sequence 14569, A
42	203	14.0	151295	4	US-09-949-016-14570	Sequence 14570, A
43	203	14.0	151295	4	US-09-949-016-14571	Sequence 14571, A
44	203	14.0	151295	4	US-09-949-016-14572	Sequence 14572, A
45	203	14.0	393753	4	US-09-949-016-14573	Sequence 14573, A

ALIGNMENTS

```
RESULT 1
US-09-687-875A-1
; Sequence 1, Application US/09687875A
; Patent No. 6544786
; GENERAL INFORMATION:
; APPLICANT: Xiao, Xiao
; APPLICANT: Liu, Paul
; TITLE OF INVENTION: METHOD AND VECTOR FOR PRODUCING AND TRANSFERRING TRANS-SPICED PEI
; FILE REFERENCE: 00792
; CURRENT APPLICATION NUMBER: US/09/687, 875A
; PRIOR FILING DATE: 2000-10-13
; PRIOR APPLICATION NUMBER: 60/158, 868
; PRIOR FILING DATE: 1999-10-15
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
; LENGTH: 5952
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (2897)..(2898)
; OTHER INFORMATION: S4 junction site
; NAME/KEY: misc_feature
; LOCATION: (3198)..(3199)
; OTHER INFORMATION: S2 junction site
US-09-687-875A-1

Query Match          99.4%; Score 1437.6; DB 4; Length 5952;
Best Local Similarity 99.7%; Pred. No. 0;
Matches 1440; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

OY 1 GACCTTGAAGAAGCTCCAGGAAGCTTCAAGAGCCACGGATGAGCTGACCTCAAGCTGCG 60
DB 3687 GACCTTGAAGAAGCTCCAGGAAGCTTCAAGAGCCACGGATGAGCTGACCTCAAGCTGCG 3746
OY 61 CCAAGCTGAGTGATCAAGGGATCTGGCAGCCCGTGGCGGATCTCTCATTTGACTCTCT 120
DB 3747 CCAAGCTGAGTGATCAAGGGATCTGGCAGCCCGTGGCGGATCTCTCATTTGACTCTCT 3806
OY 121 CCAAGATCACTCGAAGAGTCAAGGCACTTCAGAGAGAAATTCGCTTGAAGAGAA 180
DB 3807 CCAAGATCACTCGAAGAGTCAAGGCACTTCAGAGAGAAATTCGCTTGAAGAGAA 3866
OY 181 CGTAGCCAGTCAATGACCTTGCTGCGCAGCTTACCACTTTGGGATTCAGCTCACC 240
DB 3867 CGTAGCCAGTCAATGACCTTGCTGCGCAGCTTACCACTTTGGGATTCAGCTCACC 3926
OY 241 GTATACTCAGCACTCTGGAAGACTGAAACAGATGGAAGCTTTCAGAGTGCGCT 300
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Db	3927	GTATAACTCAGCACTCTGGAAGACCTGAACACCAGATGGAAGCTTCTGCAGGTGCCGT	3986
QY	301	CGAGGACCGAGTCAGGACGCTGATGAAGCCCAAGGGACTTTGTCCAGCATCTCAGCA	360
Db	3987	CGAGGACCGAGTCAGGACGCTGATGAAGCCCAAGGGACTTTGTCCAGCATCTCAGCA	4046
QY	361	CTTCTTTCCAGCTCTGTCCAGGGTCCCTGGAGAGACCCATCTGCCAAACAAAGTGCC	420
Db	4047	CTTCTTTCCAGCTCTGTCCAGGGTCCCTGGAGAGACCCATCTGCCAAACAAAGTGCC	4106
QY	421	CTACTATATCAACCACGAGACTCAACAACTTGTGGGACCATCCCAAAATGACAGAGCT	480
Db	4107	CTACTATATCAACCACGAGACTCAACAACTTGTGGGACCATCCCAAAATGACAGAGCT	4166
QY	481	CTACGAGCTTTAGCTGACCTGAATAATGTGATTTCTCAGCTTATAGGACTGCCATGAA	540
Db	4167	CTACGAGCTTTAGCTGACCTGAATAATGTGATTTCTCAGCTTATAGGACTGCCATGAA	4226
QY	541	ACTCCGAAGACTGCAGAAAGGCCCTTGTCTTGGATCTCTTGAGCCTGTCACTGATGTA	600
Db	4227	ACTCCGAAGACTGCAGAAAGGCCCTTGTCTTGGATCTCTTGAGCCTGTCACTGATGTA	4286
QY	601	TGCTTTGGACCAAGCACAACCTCAAGCAAAATGACCAAGCCATGATATCTCGAGATTAT	660
Db	4287	TGCTTTGGACCAAGCACAACCTCAAGCAAAATGACCAAGCCATGATATCTCGAGATTAT	4346
QY	661	TAATTGTTGACCACTATTTATGACCGCCTGGAGCAAGACACAACAAATTTGGTCAAGT	720
Db	4347	TAATTGTTGACCACTATTTATGACCGCCTGGAGCAAGACACAACAAATTTGGTCAAGT	4406
QY	721	CCCTCTCGCGTGGATATGTGTCTGAACTGGCTGTGAAATGTTATGATACGGGACGAAC	780
Db	4407	CCCTCTCGCGTGGATATGTGTCTGAACTGGCTGTGAAATGTTATGATACGGGACGAAC	4466
QY	781	AGGAGGATCCGTGTCTGTCTTTTAAAACTGGCATATTTCCCTGTGTAAAGCACATTT	840
Db	4467	AGGAGGATCCGTGTCTGTCTTTTAAAACTGGCATATTTCCCTGTGTAAAGCACATTT	4526
QY	841	GGAAGACAAGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCAACAGATTTTGTGACCA	900
Db	4527	GGAAGACAAGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCAACAGATTTTGTGACCA	4586
QY	901	GCGGAGCTGGGCTCCTTCTGCATGATTTATCCAAATTCAGACAGTTGGGTGAAGT	960
Db	4587	GCGGAGCTGGGCTCCTTCTGCATGATTTATCCAAATTCAGACAGTTGGGTGAAGT	4646
QY	961	TGCATCCTTTGGGGGCAGTAAACATTGAGCCAAAGTGTCCGAGCTGCTTCCAATTTGCTAA	1020
Db	4647	TGCATCCTTTGGGGGCAGTAAACATTGAGCCAAAGTGTCCGAGCTGCTTCCAATTTGCTAA	4706
QY	1021	TAATAAGCCAGAGATCGAAGCGGCCCTTCTCTAGACTGATGAGACTGGAAACCCAGTC	1080
Db	4707	TAATAAGCCAGAGATCGAAGCGGCCCTTCTCTAGACTGATGAGACTGGAAACCCAGTC	4766
QY	1081	CATGCTGTGCTGCCCTCTCTGCAACAGAGTGGCTGCTGCAGAAACTGCCAAGCATCAGGC	1140
Db	4767	CATGCTGTGCTGCCCTCTCTGCAACAGAGTGGCTGCTGCAGAAACTGCCAAGCATCAGGC	4826
QY	1141	CAAAATGTAACATCTGCAGAAAGTGTCCAATCATTTGATTCAGGTACAGAGTCTAAAGCA	1200
Db	4827	CAAAATGTAACATCTGCAGAAAGTGTCCAATCATTTGATTCAGGTACAGAGTCTAAAGCA	4886
QY	1201	CTTTAATATGACATCTGCCAAAGCTGCTTTTCTGTGAGTTGCAAAAGGCCATTA	1260
Db	4887	CTTTAATATGACATCTGCCAAAGCTGCTTTTCTGTGAGTTGCAAAAGGCCATTA	4946
QY	1261	AATGCACTATCCCATGTGTGAATATGCACTCCGACTACATCAGAGAGAAGATGTTGAGA	1320
Db	4947	AATGCACTATCCCATGTGTGAATATGCACTCCGACTACATCAGAGAGAAGATGTTGAGA	5006
QY	1321	CTTTGCCAAGGTACTAAAAAAACAAATTTGCAACAAAAGTATTTTGGCAAGCATCCCG	1380
Db	5007	CTTTGCCAAGGTACTAAAAAAACAAATTTGCAACAAAAGTATTTTGGCAAGCATCCCG	5066

QY	1381	AATGGGCTACCTGCCAGTGACAGACTGTCTTAGAGGGGGACA	CATGGAAC	CTCCGCAC	1440
Db	5067	AATGGGCTACCTGCCAGTGACAGACTGTCTTAGAGGGGGACA	CATGGAAC	CTCCGCAC	5126
QY	1441	AATG	1444		
Db	5127	TCTG	5130		

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RESULT 2
US-09-949-016-2831
; Sequence 2831, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949, 016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241, 755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237, 768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231, 498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2831
; LENGTH: 5627
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-2831

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Query Match	99.2%;	Score 1436;	DB 4;	Length 5627;
Best Local Similarity	99.7%;	Pred. No. 0;		
Matches 1439;	Conservative 0;	Mismatches 5;	Indels 0;	Gaps 0;
QY 1	GACCCTTGAAGACTCCAGGAATTC	AAGAGGCCACCGATGAGCTG	GAACCTCAAGCTGCG	60
DB 667	GACCCTTGAAGACTCCGGGAATTC	AAGAGGCCACCGATGAGCTG	GAACCTCAAGCTGCG	726
QY 61	CCAAGCTGAGGTGATCAAGGGATC	CTGGCAGCCCCGTGGCGATCT	CCTCATTTGACTCTCT	120
DB 727	CCAAGCTGAGGTGATCAAGGGATC	CTGGCAGCCCCGTGGCGATCT	CCTCATTTGACTCTCT	786
QY 121	CCAAGATCACTCGAGAAAGTCAAG	GCACCTTCGAGGAGAAATTGCG	CCCTGAAAGAGAA	180
DB 787	CCAAGATCACTCGAGAAAGTCAAG	GCACCTTCGAGGAGAAATTGCG	CCCTGAAAGAGAA	846
QY 181	CGTGAGCCACGTCAATGACCTTGCT	CGCCAGCTTAACCACTTTGGCAT	TGAGCTCTCACC	240
DB 847	CGTGAGCCACGTCAATGACCTTGCT	CGCCAGCTTAACCACTTTGGCAT	TGAGCTCTCACC	906
QY 241	GTATAACCTCAGCACTCTGGAAGA	CCCTGGAACCAAGATGGAAGCT	TTCTGCAAGGTGGCCGT	300
DB 907	GTATAACCTCAGCACTCTGGAAGA	CCCTGGAACCAAGATGGAAGCT	TTCTGCAAGGTGGCCGT	966
QY 301	CGAGGACCGAGTCAGGCAGCTGCAT	GAGCCCAAGGACTTTGGTCCAGCA	TCTCAGCA	360
DB 967	CGAGGACCGAGTCAGGCAGCTGCAT	GAGCCCAAGGACTTTGGTCCAGCA	TCTCAGCA	1026
QY 361	CTTTCTTTCCACGTCTGTCAGAGG	GTCCCTGGGAGAGAGCCATCTG	CCAAACAAAGTGCC	420
DB 1027	CTTTCTTTCCACGTCTGTCAGAGG	GTCCCTGGGAGAGAGCCATCTG	CCAAACAAAGTGCC	1086
QY 421	CTACTATATCAACCCAGAGACTCAAA	CAACTTGCTGGGACCATCCAAAAT	GACAGAGCT	480
DB 1087	CTACTATATCAACCCAGAGACTCAAA	CAACTTGCTGGGACCATCCAAAAT	GACAGAGCT	1146
QY 481	CTACCACTTTAGCTGACCTGAATAAT	GTGATGATTCAGCTTATAGACTG	CCATGAA	540

Db 1147 CTACCACTCTTTAGCTGACCTGAATAATGTCAGATTCTCAGCTTATAGGACTGCCATGAA 1206
QY 541 ACTCCGAAGACTGACAGAAGGCCCTTGGCTGGATCTCTTGAGCCTGTGAGCTGCATGTGA 600
Db 1207 ACTCCGAAGACTGACAGAAGGCCCTTGGCTGGATCTCTTGAGCCTGTGAGCTGCATGTGA 1266
QY 601 TGCCTTGACACGACACAACCTCAAGCAAAATGACCAAGCCCATGATATCTCGACAGATTAT 660
Db 1267 TGCCTTGACACGACACAACCTCAAGCAAAATGACCAAGCCCATGATATCTCGACAGATTAT 1326
QY 661 TAATTGTTGACCACTATTATGACCCGCTGAGCAAGACACAACAATTGGTCAACGT 720
Db 1327 TAATTGTTGACCACTATTATGACCCGCTGAGCAAGACACAACAATTGGTCAACGT 1386
QY 721 CCCTCTGCGTGAATATGTGTCTGAACCTGGCTGTAATGTTATGATACGGGACGAAC 780
Db 1387 CCCTCTGCGTGAATATGTGTCTGAACCTGGCTGTAATGTTATGATACGGGACGAAC 1446
QY 781 AGGAGGATCCGTGTCTGTCTTTTAAACCTGGCATATTTCCCTGTGTAAAGCACATTT 840
Db 1447 AGGAGGATCCGTGTCTGTCTTTTAAACCTGGCATATTTCCCTGTGTAAAGCACATTT 1506
QY 841 GGAAGACAAGTACAGATACCTTTTCAAGCAAGTGCAGATTCAACAGAGATTTGTGACCA 900
Db 1507 GGAAGACAAGTACAGATACCTTTTCAAGCAAGTGCAGATTCAACAGAGATTTGTGACCA 1566
QY 901 GCGCAGGCTGGGCTCTCTTCTGATGATTCTTATCCAAATTCGAAGACAGTTGGGTGAAGT 960
Db 1567 GCGCAGGCTGGGCTCTCTTCTGATGATTCTTATCCAAATTCGAAGACAGTTGGGTGAAGT 1626
QY 961 TGCATCCCTTTGGGGGAGTAACATTTAGCCAAAGTGTCCGAGCTGCTTCCAATTTGCTAA 1020
Db 1627 TGCATCCCTTTGGGGGAGTAACATTTAGCCAAAGTGTCCGAGCTGCTTCCAATTTGCTAA 1686
QY 1021 TAATAAGCCAGAGATCGAAGCGGCCCTTCTCTAGACTGAGTGAAGTGAACCCAGTGC 1080
Db 1687 TAATAAGCCAGAGATCGAAGCGGCCCTTCTCTAGACTGAGTGAAGTGAACCCAGTGC 1746
QY 1081 CATGCTGTGGTCCCGCTCTCTGACAGAGTGGCTGACAGAACTGCCAAGCATCAGGC 1140
Db 1747 CATGCTGTGGTCCCGCTCTCTGACAGAGTGGCTGACAGAACTGCCAAGCATCAGGC 1806
QY 1141 CAAATGTAACTCTGCAAAAGAGTGTCCAATCATTTGATTCAGGTACAGAGTCTTAAAGCA 1200
Db 1807 CAAATGTAACTCTGCAAAAGAGTGTCCAATCATTTGATTCAGGTACAGAGTCTTAAAGCA 1866
QY 1201 CTTTAATTATGACATCTGCCAAAGCTGTTTCTGTGAGTGCAGAAAGGCCATTA 1260
Db 1867 CTTTAATTATGACATCTGCCAAAGCTGTTTCTGTGAGTGCAGAAAGGCCATTA 1926
QY 1261 AATGCACTATCCCAAGTGTGAATATGCACTCCGACTACATCAGAGAGAAGATGTTGAGA 1320
Db 1927 AATGCACTATCCCAAGTGTGAATATGCACTCCGACTACATCAGAGAGAAGATGTTGAGA 1986
QY 1321 CTTTGCCAAGTACTTAAATAAACAATTTGCAACCAAAAGTATTTTGGCAAGCATCCCGC 1380
Db 1987 CTTTGCCAAGTACTTAAATAAACAATTTGCAACCAAAAGTATTTTGGCAAGCATCCCGC 2046
QY 1381 AATGGGCTACCTGCCAGTGCAGACTGTCTTAGAGGGGGAACAACATGGAACCTCCGACAC 1440
Db 2047 AATGGGCTACCTGCCAGTGCAGACTGTCTTAGAGGGGGAACAACATGGAACCTCCGTTAC 2106
QY 1441 AATG 1444
Db 2107 TCTG 2110

RESULT 3
US-09-949-016-2832
; Sequence 2832, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.

; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FASTSEQ for Windows Version 4.0
; SEQ ID NO 2832
; LENGTH: 5627
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-2832

Query Match 99.2%; Score 1436; DB 4; Length 5627;
Best Local Similarity 99.7%; Pred. No. 0;
Matches 1439; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 1 GACCCCTGAAAGACTCCAGAACTTCAAGAGGCCACCGATGAGCTGACCTCAAGCTGCG 60
Db 667 GACCCCTGAAAGACTCCGGAACTTCAAGAGGCCACCGATGAGCTGACCTCAAGCTGCG 726
QY 61 CCAAGCTGAGTGATCAAGGATCCTGGAGCCCGTGGCGATCTCTCATTTGACTCTCT 120
Db 727 CCAAGCTGAGTGATCAAGGATCCTGGAGCCCGTGGCGATCTCTCATTTGACTCTCT 786
QY 121 CCAAGATCACTCGAAGAAAGTCAAGGCACTTGAAGAAATTCGCTGAAAGAGAA 180
Db 787 CCAAGATCACTCGAAGAAAGTCAAGGCACTTGAAGAAATTCGCTGAAAGAGAA 846
QY 181 CGTAGCCAGTCAATGACCTTGTCTGCGCACTTACCACTTTGGGCAATCAGCTCTCACC 240
Db 847 CGTAGCCAGTCAATGACCTTGTCTGCGCACTTACCACTTTGGGCAATCAGCTCTCACC 906
QY 241 GTATACTTCAAGCACTCTGGAAGACCTGAACCAACAGATGGAAGCTTCTGCAAGTGGCCGT 300
Db 907 GTATACTTCAAGCACTCTGGAAGACCTGAACCAACAGATGGAAGCTTCTGCAAGTGGCCGT 966
QY 301 CGAGGACCGAGTCAAGGCAAGTGCATGAAGCCCAAGGACTTGTGTCAGCATCTCAGCA 360
Db 967 CGAGGACCGAGTCAAGGCAAGTGCATGAAGCCCAAGGACTTGTGTCAGCATCTCAGCA 1026
QY 361 CTTTCTTCCAGCTGTGTCCAGGAGTCCCTGGAGAGAGAGCCATCTCGCAAAACAAGTGCC 420
Db 1027 CTTTCTTCCAGCTGTGTCCAGGAGTCCCTGGAGAGAGAGCCATCTCGCAAAACAAGTGCC 1086
QY 421 CTACTATATCAACCAAGAGACTCAAAACAATTCTGCGGACCATCCCAAAATGACAGAGCT 480
Db 1087 CTACTATATCAACCAAGAGACTCAAAACAATTCTGCGGACCATCCCAAAATGACAGAGCT 1146
QY 481 CTACAGTCTTTAGCTGAACCTGAATATGTCAGATTCTCAGCTTATAGACTGCCATGAA 540
Db 1147 CTACAGTCTTTAGCTGAACCTGAATATGTCAGATTCTCAGCTTATAGACTGCCATGAA 1206
QY 541 ACTCCGAAGACTGCAAGAGGCCCTTGGCTGGATCTCTTGAGCCTGTGAGCTGCATGTGA 600
Db 1207 ACTCCGAAGACTGCAAGAGGCCCTTGGCTGGATCTCTTGAGCCTGTGAGCTGCATGTGA 1266
QY 601 TGCCTTGACACGACACAACCTCAAGCAAAATGACCAAGCCCATGATATCTCGACAGATTAT 660
Db 1267 TGCCTTGACACGACACAACCTCAAGCAAAATGACCAAGCCCATGATATCTCGACAGATTAT 1326
QY 661 TAATTGTTGACCACTATTATGACCCGCTGAGCAAGACACAACAATTGGTCAACGT 720
Db 1327 TAATTGTTGACCACTATTATGACCCGCTGAGCAAGACACAACAATTGGTCAACGT 1386
QY 721 CCCTCTGCGTGAATATGTGTCTGAACCTGGCTGTAATGTTATGATACGGGACGAAC 780

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Db 1387 CCCTCTCTGCGTGATATGTGTCTGAAGTGGCTGCTGAATGTTTATGATACGGAGCAAC 1446
QY 781 AGGAGGATCCGTGTCCTGTCTTTTAAAACTGGCATCATTTCCCTGTGTAAAGCACATTT 840
Db 1447 AGGAGGATCCGTGTCCTGTCTTTTAAAACTGGCATCATTTCCCTGTGTAAAGCACATTT 1506
QY 841 GGAAGACAAGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCACAGATTTTGTGACCA 900
Db 1507 GGAAGACAAGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCACAGATTTTGTGACCA 1566
QY 901 GCGCAGGCTGGGCTCTCTCTGTGATGATTTCTATCCAAATTCACAGACAGTTGGGTGAAGT 960
Db 1567 GCGCAGGCTGGGCTCTCTCTGTGATGATTTCTATCCAAATTCACAGACAGTTGGGTGAAGT 1626
QY 961 TGCATCCTTTGGGGCAGTAACATGAGCCAAAGTGTCCGAGCTGCTTCCAATTTGCTAA 1020
Db 1627 TGCATCCTTTGGGGCAGTAACATGAGCCAAAGTGTCCGAGCTGCTTCCAATTTGCTAA 1686
QY 1021 TAATAAGCCAGAGATCGAAGCGGCCCTTCTCTAGACTGATGAGACTGGAACCCCAAGTC 1080
Db 1687 TAATAAGCCAGAGATCGAAGCGGCCCTTCTCTAGACTGATGAGACTGGAACCCCAAGTC 1746
QY 1081 CATGCTGTGGCTGCCCCCTCTCTGACAGAGTGGCTGTGAGAACTGCCAAGCATCAGGC 1140
Db 1747 CATGCTGTGGCTGCCCCCTCTCTGACAGAGTGGCTGTGAGAACTGCCAAGCATCAGGC 1806
QY 1141 CAAATGTAAACATCTGCAGAAAGAGTCCCAATCATTTGATTCAGGTACAGAGATCTAAAGCA 1200
Db 1807 CAAATGTAAACATCTGCAGAAAGAGTCCCAATCATTTGATTCAGGTACAGAGATCTAAAGCA 1866
QY 1201 CTTTAATTAATGACATCTGCCAAAGCTGCTTTTCTGTGCTGAGTTGCAAAAGGCCATTA 1260
Db 1867 CTTTAATTAATGACATCTGCCAAAGCTGCTTTTCTGTGCTGAGTTGCAAAAGGCCATTA 1926
QY 1261 AATGCACTATCCCATGTGGAATATTTGCACTCCGACTACATCAGAGAGATGTTCCAGA 1320
Db 1927 AATGCACTATCCCATGTGGAATATTTGCACTCCGACTACATCAGAGAGATGTTCCAGA 1986
QY 1321 CTTTGCCAAAGTACTAAAAACAATTTGCAACCAAAAGGTATTTTGGCAAGCATCCCG 1380
Db 1987 CTTTGCCAAAGTACTAAAAACAATTTGCAACCAAAAGGTATTTTGGCAAGCATCCCG 2046
QY 1381 AATGGCTACCTGCAGAGTGCAGACTGCTTTAGAGGGGAGACAACATGAAACTCCGACAC 1440
Db 2047 AATGGCTACCTGCAGAGTGCAGACTGCTTTAGAGGGGAGACAACATGAAACTCCGCTTAC 2106
QY 1441 AATG 1444
Db 2107 TCTG 2110

RESULT 4
US-09-949-016-2812
; Sequence 2812, Application us/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2812
; LENGTH: 7109
; TYPE: DNA
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; ORGANISM: Human
US-09-949-016-2812
Query Match 99.2%; Score 1436; DB 4; Length 7109;
Best Local Similarity 99.7%; Pred. No. 0;
Matches 1439; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 1 GACCCTGAAAGACTCCAGGAATTCAGAGGCCACGGATGAGCTGGAACCTCAAGCTGCG 60
Db 2181 GACCCTGAAAGACTCCGGGAATTCAGAGGCCACGGATGAGCTGGAACCTCAAGCTGCG 2240
QY 61 CCAAGCTGAGGTGATCAAGGATCCTGGCAGCCCGTGGGCGATCTCTCATTTGACTCTCT 120
Db 2241 CCAAGCTGAGGTGATCAAGGATCCTGGCAGCCCGTGGGCGATCTCTCATTTGACTCTCT 2300
QY 121 CCAAGATCAGCTCGAAGAAAGTCAAGGCACTTCGAGAGAGAAATGCGCTCTGAAAGAGAA 180
Db 2301 CCAAGATCAGCTCGAAGAAAGTCAAGGCACTTCGAGAGAGAAATGCGCTCTGAAAGAGAA 2360
QY 181 CGTAGCCACGTCAATGACCTTGCTCGCAGCTTACCACTTTGGGCATTGAGCTTCAGCC 240
Db 2361 CGTAGCCACGTCAATGACCTTGCTCGCAGCTTACCACTTTGGGCATTGAGCTTCAGCC 2420
QY 241 GTATTAACCTCAGCACTCTGGAAGACCTGAAACACCAATGGAAGCTTCTGCAGGTGCGCT 300
Db 2421 GTATTAACCTCAGCACTCTGGAAGACCTGAAACACCAATGGAAGCTTCTGCAGGTGCGCT 2480
QY 301 CGAGGACGAGTCAAGCAGCTGCATGAAAGCCACAGGCACTTTGCTCCAGCATTCAGCA 360
Db 2481 CGAGGACGAGTCAAGCAGCTGCATGAAAGCCACAGGCACTTTGCTCCAGCATTCAGCA 2540
QY 361 CTTTCTTTCCACGTCTGTCCAGGGTCCCTGGAGAGAGCCATCTCGCCAAACAAAGTGCC 420
Db 2541 CTTTCTTTCCACGTCTGTCCAGGGTCCCTGGAGAGAGCCATCTCGCCAAACAAAGTGCC 2600
QY 421 CTAATATATCAACCAAGCACTCAACCACTTGTGGAACCATCCCAAAATGACAGAGCT 480
Db 2601 CTAATATATCAACCAAGCACTCAACCACTTGTGGAACCATCCCAAAATGACAGAGCT 2660
QY 481 CTACAGTCTTTAGCTGACCTGAATATGTCTAGATTTCTAGCTTATAGACTGCCATGAA 540
Db 2661 CTACAGTCTTTAGCTGACCTGAATATGTCTAGATTTCTAGCTTATAGACTGCCATGAA 2720
QY 541 ACTCCGAAGACTGCAGAAAGGCCCTTGTGCTGATCTCTTGAGCCTGTGAGCTGCATGTGA 600
Db 2721 ACTCCGAAGACTGCAGAAAGGCCCTTGTGCTGATCTCTTGAGCCTGTGAGCTGCATGTGA 2780
QY 601 TGCCTTGAGACGACCAACCTCAAGCAAAATGACAGCCCATGATATCTGACAGATTAT 660
Db 2781 TGCCTTGAGACGACCAACCTCAAGCAAAATGACAGCCCATGATATCTGACAGATTAT 2840
QY 661 TAATGTTTGACCACTATTATGACCCGCTGAGCAAGAGACACAATTTGGTCAACGT 720
Db 2841 TAATGTTTGACCACTATTATGACCCGCTGAGCAAGAGACACAATTTGGTCAACGT 2900
QY 721 CCCTCTCTGCGTGATATGTGTGAACTGGCTGCTGAATGTTTATGATACGGAGCAAC 780
Db 2901 CCCTCTCTGCGTGATATGTGTGAACTGGCTGCTGAATGTTTATGATACGGAGCAAC 2960
QY 781 AGGAGATCCGTGTCTGTCTTTTAAAACTGGCATCATTTCCCTGTGTAAGCACATTT 840
Db 2961 AGGAGATCCGTGTCTGTCTTTTAAAACTGGCATCATTTCCCTGTGTAAGCACATTT 3020
QY 841 GGAAGACAAGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCACAGATTTTGTGACCA 900
Db 3021 GGAAGACAAGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCACAGATTTTGTGACCA 3080
QY 901 GCGCAGGCTGGGCTCTCTTGTGATGATTTCTATCCAAATTCACAGAGTGGGTGAAGT 960
Db 3081 GCGCAGGCTGGGCTCTCTTGTGATGATTTCTATCCAAATTCACAGAGTGGGTGAAGT 3140
QY 961 TGCATCCTTTGGGGCAGTAACATGAGCCAAAGTGTCCGAGCTGCTTCCAATTTGCTAA 1020
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Db 3141 TGCATCCTTTGGGGGAGTAACATTGAGCCAAAGTGTCCGAGCTGCTTCCAATTGCTAA 3200
QY 1021 TAATAAGCCAGAGATCGAAGCGCCCTCTTCTAGACTGATGAGACTGAAACCCAGTC 1080
Db 3201 TAATAAGCCAGAGATCGAAGCGCCCTCTTCTAGACTGATGAGACTGAAACCCAGTC 3260
QY 1081 CATGCTGTGCTGCCCCGTCTCTGCACAGAGTGGCTGCTGCAGAAACTGCCAAGCATCAGGC 1140
Db 3261 CATGCTGTGCTGCCCCGTCTCTGCACAGAGTGGCTGCTGCAGAAACTGCCAAGCATCAGGC 3320
QY 1141 CAAATGTAACTCTGCAGAGAGTGTCCAATCATTTGATTCAAGTACAGAGTCTAAAGCA 1200
Db 3321 CAAATGTAACTCTGCAGAGAGTGTCCAATCATTTGATTCAAGTACAGAGTCTAAAGCA 3380
QY 1201 CTTTAATTATGACATCTGCCAAAGCTGTTTTTTCTGTGCTGAGTTGCAAAAGCCATAA 1260
Db 3381 CTTTAATTATGACATCTGCCAAAGCTGTTTTTTCTGTGCTGAGTTGCAAAAGCCATAA 3440
QY 1261 AATGCACTATCCCATGCTGTAATATGCACTCCGACTACATCAGAGAGATGTTGAGA 1320
Db 3441 AATGCACTATCCCATGCTGTAATATGCACTCCGACTACATCAGAGAGATGTTGAGA 3500
QY 1321 CTTTGCCAGGTACTAAACAAATTTGCAACCAAAAGTATTTTGGCAAGCATCCCGC 1380
Db 3501 CTTTGCCAGGTACTAAACAAATTTGCAACCAAAAGTATTTTGGCAAGCATCCCGC 3560
QY 1381 AATGGGCTACTGCGCAGTGCAGACTGTCTTGAAGGGGGACAACATGGAATCTCCGACAC 1440
Db 3561 AATGGGCTACTGCGCAGTGCAGACTGTCTTGAAGGGGGACAACATGGAATCTCCGCTTAC 3620
QY 1441 AATG 1444
Db 3621 TCTG 3624

RESULT 5
US-09-949-016-2813
; Sequence 2813, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; PRIOR FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for windows Version 4.0
; SEQ ID NO 2813
; LENGTH: 7109
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-2813

Query Match 99.2%; Score 1436; DB 4; Length 7109;
Best Local Similarity 99.7%; Pred. No. 0;
Matches 1439; Conservative 0; Mismatches 5; Indels 0; Gaps 0;
QY 1 GACCCCTGAAAGACTCCAGGAACCTTCAAGAGGCCAGATGAGCTGAGCTCAAGCTGCG 60
Db 2181 GACCCCTGAAAGACTCCGGGAACCTTCAAGAGGCCAGATGAGCTGAGCTCAAGCTGCG 2240
QY 61 CCAAGCTGAGGTGATCAAGGATCTGCGAGCCCGTGGCGATCTCTCATTTGACTCTCT 120
Db 2241 CCAAGCTGAGGTGATCAAGGATCTGCGAGCCCGTGGCGATCTCTCATTTGACTCTCT 2300
QY 121 CCAAGATCACTCGAGAAAGTCAAGGCACTTGCAGAGAAATTGCGCTGTGAAAGAGAA 180

Db 2301 CCAAGATCACTCGAGAAAGTCAAGGCACTTGCAGAGAAATTGCGCTGTGAAAGAGAA 2360
QY 181 CGTAGCCACGTCAATGACCTTGTGCGCCAGCTTACCACCTTTGGGATTCAGCTCTCACC 240
Db 2361 CGTAGCCACGTCAATGACCTTGTGCGCCAGCTTACCACCTTTGGGATTCAGCTCTCACC 2420
QY 241 GTATAACCTCAGCACTCTGGAAGACCTGAAACACAGATGGAAGCTTCTGCAAGTGGCCGT 300
Db 2421 GTATAACCTCAGCACTCTGGAAGACCTGAAACACAGATGGAAGCTTCTGCAAGTGGCCGT 2480
QY 301 CGAGGACCGAGTCAGGAGCTGATGAAGCCACAGGACTTTGGTCCAGCATCTCAGCA 360
Db 2481 CGAGGACCGAGTCAGGAGCTGATGAAGCCACAGGACTTTGGTCCAGCATCTCAGCA 2540
QY 361 CTTTCTTCCAGCTGTGTCAGAGGTCCTGGAGAGAGAGCCATCTGCCAAAGTGGCC 420
Db 2541 CTTTCTTCCAGCTGTGTCAGAGGTCCTGGAGAGAGAGCCATCTGCCAAAGTGGCC 2600
QY 421 CTACTATATCAACCAAGAGACTCAACAACTTGCTGGAGCCATCCCAAAATGACAGAGCT 480
Db 2601 CTACTATATCAACCAAGAGACTCAACAACTTGCTGGAGCCATCCCAAAATGACAGAGCT 2660
QY 481 CTACAGCTCTTAAAGCTGACCTGAATATGTCAAGATTCTCAGCTTATAGACTGCCATGAA 540
Db 2661 CTACAGCTCTTAAAGCTGACCTGAATATGTCAAGATTCTCAGCTTATAGACTGCCATGAA 2720
QY 541 ACTCCGAAGCTGCAAGAGCCCTTGTGATCTCTTGAGCCTGTGACCTGCATGTGA 600
Db 2721 ACTCCGAAGCTGCAAGAGCCCTTGTGATCTCTTGAGCCTGTGACCTGCATGTGA 2780
QY 601 TGCCTTGACAGCACAACCTCAAGCAAAATGACCAAGCCATGATATCTGACAGATTAT 660
Db 2781 TGCCTTGACAGCACAACCTCAAGCAAAATGACCAAGCCATGATATCTGACAGATTAT 2840
QY 661 TAATGTTGACCACTATTATGACCGGCTGGAAGCAAGAGCACAAAATTGGTCAACGT 720
Db 2841 TAATGTTGACCACTATTATGACCGGCTGGAAGCAAGAGCACAAAATTGGTCAACGT 2900
QY 721 CCCTCTGCGGTGATATGTGTCTGAAGTGGCTGCTGAATGTTATGATACGGGACGAAC 780
Db 2901 CCCTCTGCGGTGATATGTGTCTGAAGTGGCTGCTGAATGTTATGATACGGGACGAAC 2960
QY 781 AGGAGGATCCGTGCTCTGCTTTTAAACTGGCATCATTTCCCTGTGTAAGCACATTT 840
Db 2961 AGGAGGATCCGTGCTCTGCTTTTAAACTGGCATCATTTCCCTGTGTAAGCACATTT 3020
QY 841 GGAAGACAAGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCAACAGATTTGTGACCA 900
Db 3021 GGAAGACAAGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCAACAGATTTGTGACCA 3080
QY 901 GCGAGGCTGGGCTCTTCTGCATGATCTATCCAATTCCAAGACGTTGGGTGAAGT 960
Db 3081 GCGAGGCTGGGCTCTTCTGCATGATCTATCCAATTCCAAGACGTTGGGTGAAGT 3140
QY 961 TGCATCCTTTGGGGGCAAGTAACATTGAGCCAAAGTGTCCGAGCTGCTTCCAATTGCTAA 1020
Db 3141 TGCATCCTTTGGGGGCAAGTAACATTGAGCCAAAGTGTCCGAGCTGCTTCCAATTGCTAA 3200
QY 1021 TAATAAGCCAGAGATCGAAGCGCCCTCTTCTAGACTGATGAGACTGAAACCCAGTC 1080
Db 3201 TAATAAGCCAGAGATCGAAGCGCCCTCTTCTAGACTGATGAGACTGAAACCCAGTC 3260
QY 1081 CATGCTGTGCTGCCCCGTCTCTGCACAGAGTGGCTGCTGCAGAAACTGCCAAGCATCAGGC 1140
Db 3261 CATGCTGTGCTGCCCCGTCTCTGCACAGAGTGGCTGCTGCAGAAACTGCCAAGCATCAGGC 3320
QY 1141 CAAATGTAACTCTGCAGAGAGTGTCCAATCATTTGATTCAAGTACAGAGTCTAAAGCA 1200
Db 3321 CAAATGTAACTCTGCAGAGAGTGTCCAATCATTTGATTCAAGTACAGAGTCTAAAGCA 3380
QY 1201 CTTTAATTATGACATCTGCCAAAGCTGTTTTTTCTGTGCTGAGTTGCAAAAGCCATTA 1260

Db 3381 CTTTAATTATGACATCTGCCAAAGCTGCTTTTCTGCTGAGTTGCCAAAGGCCATAA 3440
QY 1261 AATGCACTATCCCATGTTGGAATATTGCACTCCGACTACATCAGAGAAGATGTTGAGA 1320
Db 3441 AATGCACTATCCCATGTTGGAATATTGCACTCCGACTACATCAGAGAAGATGTTGAGA 3500
QY 1321 CTTTGCCAAAGGTACTAAAAACAATTTGCAACCAAAAGTATTTGCGAAGCATCCCCG 1380
Db 3501 CTTTGCCAAAGGTACTAAAAACAATTTGCAACCAAAAGTATTTGCGAAGCATCCCCG 3560
QY 1381 AATGGGCTACCTGCCAGTGCAGACTGTCTTAGAGGGGGAACAACATGAAACTCCCGACAC 1440
Db 3561 AATGGGCTACCTGCCAGTGCAGACTGTCTTAGAGGGGGAACAACATGAAACTCCCGTTAC 3620
QY 1441 AATG 1444
Db 3621 TCTG 3624

RESULT 6
US-09-949-016-2814
; Sequence 2814, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; PRIOR FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2814
; LENGTH: 7109
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-2814

Query Match 99.2%; Score 1436; DB 4; Length 7109;
Best Local Similarity 99.7%; Pred. No. 0;
Matches 1439; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 1 GACCCCTTGAAAGACTCCAGGAACCTCAAGAGGCCACGGATGAGCTGAACTCAAGCTGCG 60
Db 2181 GACCCCTTGAAAGACTCCGGGAACCTCAAGAGGCCACGGATGAGCTGAACTCAAGCTGCG 2240
QY 61 CCAAGCTGAGGTGATCAAGGATCCTGCGACCCCGTGGCGATCTCTCATTTGACTCTCT 120
Db 2241 CCAAGCTGAGGTGATCAAGGATCCTGCGACCCCGTGGCGATCTCTCATTTGACTCTCT 2300
QY 121 CCAAGATCACTCGAGAAAGTCAAGGCACTTCAGAGAGAAATGGCCCTCGAAAGAGAA 180
Db 2301 CCAAGATCACTCGAGAAAGTCAAGGCACTTCAGAGAGAAATGGCCCTCGAAAGAGAA 2360
QY 181 CGTAGCCACGTCATGACCTTGTGCGCCAGCTTACCACTTTGGGCAATTCAAGCTCTACC 240
Db 2361 CGTAGCCACGTCATGACCTTGTGCGCCAGCTTACCACTTTGGGCAATTCAAGCTCTACC 2420
QY 241 GTATAAAGTCAAGCACTCTGGAAGACCTGAAACACCAAGATGAAAGCTTCTGCAGGTGGCCGT 300
Db 2421 GTATAAAGTCAAGCACTCTGGAAGACCTGAAACACCAAGATGAAAGCTTCTGCAGGTGGCCGT 2480
QY 301 CGAGGACCGAGTCAAGGCAAGTGCATGAAAGCCCAAGGACTTTGGTCCAGCATCTCAGCA 360
Db 2481 CGAGGACCGAGTCAAGGCAAGTGCATGAAAGCCCAAGGACTTTGGTCCAGCATCTCAGCA 2540
QY 361 CTTTCTTTCCACGTCGTCTGTCAGGGTCCCTGGAGAGAGCCATCTCGCCAAACAAAGTGCC 420

Db 2541 CTTTCTTTCCACGTCGTCTGTCAGGGTCCCTGGAGAGAGCCATCTCGCCAAACAAAGTGCC 2600
QY 421 CTACTATATCAACCAAGAGACTCAAAACAATTGCTGGAGACCATCCAAATGACAGAGCT 480
Db 2601 CTACTATATCAACCAAGAGACTCAAAACAATTGCTGGAGACCATCCAAATGACAGAGCT 2660
QY 481 CTACCAAGCTTTAGCTGACCTGAAATTAATGTCAGATTCTCAGCTTAATGAGACTGCATGAA 540
Db 2661 CTACCAAGCTTTAGCTGACCTGAAATTAATGTCAGATTCTCAGCTTAATGAGACTGCATGAA 2720
QY 541 ACTCCGAAGACTGCAGAAAGGCCCTTGTGCTTGATCTCTGAGCCTGTCAGCTGCATGTGA 600
Db 2721 ACTCCGAAGACTGCAGAAAGGCCCTTGTGCTTGATCTCTGAGCCTGTCAGCTGCATGTGA 2780
QY 601 TGCCCTGGACCAAGCACCAACCTCAAGCAAAATGACCAAGCCCATGGATATCTGCAGATTAT 660
Db 2781 TGCCCTGGACCAAGCACCAACCTCAAGCAAAATGACCAAGCCCATGGATATCTGCAGATTAT 2840
QY 661 TAATGTTTGAACCACTATTATATGACCGCCCTGAGCAAGAGCAACAATTTGGTCAAGCT 720
Db 2841 TAATGTTTGAACCACTATTATATGACCGCCCTGAGCAAGAGCAACAATTTGGTCAAGCT 2900
QY 721 CCCTCTCTGCGTGGAATATGTCGTGAACCTGCGTCTGAAATGTTATGATACGGGAGCAAC 780
Db 2901 CCCTCTCTGCGTGGAATATGTCGTGAACCTGCGTCTGAAATGTTATGATACGGGAGCAAC 2960
QY 781 AGGAGGATCCGTGTCGTCTTTTAAACCTGGCATCAATTCCTGTGTAAAGCAATTT 840
Db 2961 AGGAGGATCCGTGTCGTCTTTTAAACCTGGCATCAATTCCTGTGTAAAGCAATTT 3020
QY 841 GGAAGCAAGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCACAGAGATTTGTGACCA 900
Db 3021 GGAAGCAAGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCACAGAGATTTGTGACCA 3080
QY 901 GCGAGGCTGGGCTCTCTGATGATTTCTATCCAAATTCGAAGACAGTTGGTGAAAT 960
Db 3081 GCGAGGCTGGGCTCTCTGATGATTTCTATCCAAATTCGAAGACAGTTGGTGAAAT 3140
QY 961 TGCACTCTTTGGGGGCAATTAATGAGCCAAAGTGTCCGAGCTCTTCCAATTGCTAA 1020
Db 3141 TGCACTCTTTGGGGGCAATTAATGAGCCAAAGTGTCCGAGCTCTTCCAATTGCTAA 3200
QY 1021 TAATAAGCCAGAGATCGAAGCGGCCCTCTTCTAGACTGATGAGACTGGAACCCAGTCC 1080
Db 3201 TAATAAGCCAGAGATCGAAGCGGCCCTCTTCTAGACTGATGAGACTGGAACCCAGTCC 3260
QY 1081 CATGCTGTGCTGCGCCGCTCTGCAACAGAGTGGCTGTCAGAAACTGCGCAAGCATCAGGC 1140
Db 3261 CATGCTGTGCTGCGCCGCTCTGCAACAGAGTGGCTGTCAGAAACTGCGCAAGCATCAGGC 3320
QY 1141 CAAATGTAAACATCTGCAAAAGAGTGTCCAATCATTTGATTCAGGTACAGAGAGTCTAAAGCA 1200
Db 3321 CAAATGTAAACATCTGCAAAAGAGTGTCCAATCATTTGATTCAGGTACAGAGAGTCTAAAGCA 3380
QY 1201 CTTTAATTATGACATCTGCCAAAGCTGCTTTTCTGCTCGAGTTGCAAAAGGCCATAA 1260
Db 3381 CTTTAATTATGACATCTGCCAAAGCTGCTTTTCTGCTCGAGTTGCAAAAGGCCATAA 3440
QY 1261 AATGCACTATCCCATGGTGAATATTGCACTCCGACTACATCAGAGAGAGATGTTGAGA 1320
Db 3441 AATGCACTATCCCATGGTGAATATTGCACTCCGACTACATCAGAGAGAGATGTTGAGA 3500
QY 1321 CTTTGCCAAAGGTACTAAAAACAATTTGCAACCAAAAGTATTTTGGCGAAGCATCCCCG 1380
Db 3501 CTTTGCCAAAGGTACTAAAAACAATTTGCAACCAAAAGTATTTTGGCGAAGCATCCCCG 3560
QY 1381 AATGGGCTACCTGCCAGTGCAGACTGTCTTAGAGGGGGAACAACATGAAACTCCCGACAC 1440
Db 3561 AATGGGCTACCTGCCAGTGCAGACTGTCTTAGAGGGGGAACAACATGAAACTCCCGTTAC 3620
QY 1441 AATG 1444

Db 3621 TCTG 3624

RESULT 7

US-09-949-016-2815

; Sequence 2815, Application US/09949016

; Patent No. 6812339

; GENERAL INFORMATION:

; APPLICANT: VENTER, J. Craig et al.

; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED

; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF

; FILE REFERENCE: CL001307

; CURRENT APPLICATION NUMBER: US/09/949,016

; PRIOR FILING DATE: 2000-04-14

; PRIOR FILING DATE: 2000-10-20

; PRIOR FILING DATE: 2000-10-20

; PRIOR FILING DATE: 2000-10-03

; PRIOR FILING DATE: 2000-10-03

; PRIOR FILING DATE: 2000-09-08

; NUMBER OF SEQ ID NOS: 207012

; SOFTWARE: FastSeq for windows Version 4.0

; SEQ ID NO 2815

; LENGTH: 7109

; TYPE: DNA

; ORGANISM: Human

US-09-949-016-2815

Query Match 99.2%; Score 1436; DB 4; Length 7109;
Best Local Similarity 99.7%; Pred. No. 0;
Matches 1439; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 1 GACCTTGAAAGACTCCAGGAACCTTCAAGAGGCCACCGATGAGCTGCACTCAAGCTGCG 60
DB 2181 GACCTTGAAAGACTCCAGGAACCTTCAAGAGGCCACCGATGAGCTGCACTCAAGCTGCG 2240
QY 61 CCAAGCTGAGTGTATCAAGGATCTGGCAGCCCGTGGCGATCTCTCATTTGACTCTCT 120
DB 2241 CCAAGCTGAGTGTATCAAGGATCTGGCAGCCCGTGGCGATCTCTCATTTGACTCTCT 2300
QY 121 CCAAGATCACTCGAGAAAGTCAAGGCACTTCGAGAGAAATTCGCTCTGAAGAGAA 180
DB 2301 CCAAGATCACTCGAGAAAGTCAAGGCACTTCGAGAGAAATTCGCTCTGAAGAGAA 2360
QY 181 CGTGAGCCAGCTCAATGACCTTGTCTGCGCAGCTTACCATTGGGCAATTCACTCTCAC 240
DB 2361 CGTGAGCCAGCTCAATGACCTTGTCTGCGCAGCTTACCATTGGGCAATTCACTCTCAC 2420
QY 241 GTATAACCTCAGCACTCTGGAAGACCTGGAACACAGATGGAAGCTTCTGCAAGTGGCGCT 300
DB 2421 GTATAACCTCAGCACTCTGGAAGACCTGGAACACAGATGGAAGCTTCTGCAAGTGGCGCT 2480
QY 301 CGAGGACCGAGTCAAGGAGCTGATGAAGGCCACAGGAGCTTGTGTCAGCATCTCAGCA 360
DB 2481 CGAGGACCGAGTCAAGGAGCTGATGAAGGCCACAGGAGCTTGTGTCAGCATCTCAGCA 2540
QY 361 CTTTCTTTCAGCTGTGTCCAGGGTCCCTGGGAGAGAGACCATCTCGCCAAACAAGTGCC 420
DB 2541 CTTTCTTTCAGCTGTGTCCAGGGTCCCTGGGAGAGAGACCATCTCGCCAAACAAGTGCC 2600
QY 421 CTACTATATCAACCAAGAGACTCAAACTTCTGCTGGGACCATCCCAAAATGACAGAGCT 480
DB 2601 CTACTATATCAACCAAGAGACTCAAACTTCTGCTGGGACCATCCCAAAATGACAGAGCT 2660
QY 481 CTACCAGTCTTTAGCTGACCTGATAATGTGATCTCTAGCTTATAGACTGCCATGAA 540
DB 2661 CTACCAGTCTTTAGCTGACCTGATAATGTGATCTCTAGCTTATAGACTGCCATGAA 2720
QY 541 ACTCCGAAGACTGAGAAGGCCCTTGTGCTGATCTCTTGAGCCTGTGAGCTGATGTGA 600
DB 2721 ACTCCGAAGACTGAGAAGGCCCTTGTGCTGATCTCTTGAGCCTGTGAGCTGATGTGA 2780
QY 601 TGCTTGGAGCAGACAACCTCAAGCAAAATGACCAAGCCCATGATATCTGACAGATTAT 660

DB 2781 TGCTTGGAGCAGACAACCTCAAGCAAAATGACCAAGCCCATGATATCTGACAGATTAT 2840
QY 661 TAATGTTTGACCACTATTATGACCGCCTGGAGCAAGAGACACAATTTGGTCAAGCT 720
DB 2841 TAATGTTTGACCACTATTATGACCGCCTGGAGCAAGAGACACAATTTGGTCAAGCT 2900
QY 721 CCCTCTCTGCGTGATATGTGTCTGAACCTGGCTGCTGAATGTTATGATACGGGACGAC 780
DB 2901 CCCTCTCTGCGTGATATGTGTCTGAACCTGGCTGCTGAATGTTATGATACGGGACGAC 2960
QY 781 AGGAGGATCCGTCTCTCTTTTAAACTGGCATCATTTCCCTGTGTAAGCACATTT 840
DB 2961 AGGAGGATCCGTCTCTCTTTTAAACTGGCATCATTTCCCTGTGTAAGCACATTT 3020
QY 841 GGAAGACAAGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCAAGATTTTGTGACCA 900
DB 3021 GGAAGACAAGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCAAGATTTTGTGACCA 3080
QY 901 GCGCAGGCTGGGCTCTCTCTGATGATTTCTATCCAAATTCAGACAGTTGGTGAAGT 960
DB 3081 GCGCAGGCTGGGCTCTCTCTGATGATTTCTATCCAAATTCAGACAGTTGGTGAAGT 3140
QY 961 TGCATCTTTGGGGGAGTAACATTTAGCCCAAGTGTCCGAGCTGCTTCCAATTGCTAA 1020
DB 3141 TGCATCTTTGGGGGAGTAACATTTAGCCCAAGTGTCCGAGCTGCTTCCAATTGCTAA 3200
QY 1021 TAATAAGCAGAGATCGAAGCGGCTCTCTCTAGACTGATGAGACTGGAACCCAGTC 1080
DB 3201 TAATAAGCAGAGATCGAAGCGGCTCTCTCTAGACTGATGAGACTGGAACCCAGTC 3260
QY 1081 CATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1140
DB 3261 CATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 3320
QY 1141 CAATGTAACATCTGCAAGAGTGTCCAATCATTTGATTCAGGATCAGAGAGTCTAAAGCA 1200
DB 3321 CAATGTAACATCTGCAAGAGTGTCCAATCATTTGATTCAGGATCAGAGAGTCTAAAGCA 3380
QY 1201 CTTTAAATATGACATCTGCCAAAGCTGCTTTTCTGCTGCTGCTGCTGCTGCTGCTGCT 1260
DB 3381 CTTTAAATATGACATCTGCCAAAGCTGCTTTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 3440
QY 1261 AATGACATATCCCATGTGTGAATATTCGACTCCGACTACATCAGAGAAAGATGTTGAGA 1320
DB 3441 AATGACATATCCCATGTGTGAATATTCGACTCCGACTACATCAGAGAAAGATGTTGAGA 3500
QY 1321 CTTTGCAGAGTACTAAACCAAAATTTGGAACCAAAAGTATTTGCGAAAGCATCCCCG 1380
DB 3501 CTTTGCAGAGTACTAAACCAAAATTTGGAACCAAAAGTATTTGCGAAAGCATCCCCG 3560
QY 1381 AATGGGCTACTGCGCAGTGCAGACTGTCTTAGAGGGGAGACAATGGAATCTCCGACAC 1440
DB 3561 AATGGGCTACTGCGCAGTGCAGACTGTCTTAGAGGGGAGACAATGGAATCTCCGACAC 3620
QY 1441 AATG 1444
DB 3621 TCTG 3624

RESULT 8

US-09-949-016-2816

; Sequence 2816, Application US/09949016

; Patent No. 6812339

; GENERAL INFORMATION:

; APPLICANT: VENTER, J. Craig et al.

; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED

; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF

; FILE REFERENCE: CL001307

; CURRENT APPLICATION NUMBER: US/09/949,016

; PRIOR FILING DATE: 2000-04-14

; PRIOR FILING DATE: 2000-10-20

; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2816
; LENGTH: 7109
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-2816

Query Match 99.2%; Score 1436; DB 4; Length 7109;
Best Local Similarity 99.7%; Pred. No. 0;
Matches 1439; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 1 GACCCCTGAAAGACTCCAGGAACCTTCAAGAGGCCACGGATGAGCTGGAACCTCAAGCTGCG 60
Db 2181 GACCCCTGAAAGACTCCGGGAACCTTCAAGAGGCCACGGATGAGCTGGAACCTCAAGCTGCG 2240
QY 61 CCAAGCTGAGGTGATCAAGGGATCTGGGACCCCGTGGCGCATCTCTCATTTGACTCTCT 120
Db 2241 CCAAGCTGAGGTGATCAAGGGATCTGGGACCCCGTGGCGCATCTCTCATTTGACTCTCT 2300
QY 121 CCAAGATCACCTCGAAGAAAGTCAAGGCACTTCGAGAGAAATTGCGCTCTGAAAGAGAA 180
Db 2301 CCAAGATCACCTCGAAGAAAGTCAAGGCACTTCGAGAGAAATTGCGCTCTGAAAGAGAA 2360
QY 181 CGTGAGCCACGTCAATGACCTTGTGCGCCAGCTTACCACCTTTGGGCATTGAGCTCTCAC 240
Db 2361 CGTGAGCCACGTCAATGACCTTGTGCGCCAGCTTACCACCTTTGGGCATTGAGCTCTCAC 2420
QY 241 GTATAACCTCAGCACTCTGGAAGACCTGAACACCAAGATGGAAGCTTCTGCAAGTGGCCGT 300
Db 2421 GTATAACCTCAGCACTCTGGAAGACCTGAACACCAAGATGGAAGCTTCTGCAAGTGGCCGT 2480
QY 301 CGAGACCGAGTCAAGGACGCTGCATGAAGCCCAAGGGACTTTGGTCCAGCATCTCAGCA 360
Db 2481 CGAGACCGAGTCAAGGACGCTGCATGAAGCCCAAGGGACTTTGGTCCAGCATCTCAGCA 2540
QY 361 CTTTCTTTCCACGTCGTGTCAGGGTCCCTGGGAGAGAGCCATCTGCCAAACAAAGTGCC 420
Db 2541 CTTTCTTTCCACGTCGTGTCAGGGTCCCTGGGAGAGAGCCATCTGCCAAACAAAGTGCC 2600
QY 421 CTACTATATCAACCAAGAGACTCAAAACACTTGTGGAGCCATCCCAAAATGACAGAGCT 480
Db 2601 CTACTATATCAACCAAGAGACTCAAAACACTTGTGGAGCCATCCCAAAATGACAGAGCT 2660
QY 481 CTACCAAGCTTTAGCTGACCTGAATAATGTCAGATTCTCAGCTTATAGGACTGCCATGAA 540
Db 2661 CTACCAAGCTTTAGCTGACCTGAATAATGTCAGATTCTCAGCTTATAGGACTGCCATGAA 2720
QY 541 ACTCCGAAGACTGCAAGAGGCCCTTTGCTTGATCTCTTGAGCCTGTCAAGCTGCATGCA 600
Db 2721 ACTCCGAAGACTGCAAGAGGCCCTTTGCTTGATCTCTTGAGCCTGTCAAGCTGCATGCA 2780
QY 601 TGCCTTGGACCAACAACCTCAAGCAAAATGACCAAGCCCATGGATATCCTGCAGATTAT 660
Db 2781 TGCCTTGGACCAACAACCTCAAGCAAAATGACCAAGCCCATGGATATCCTGCAGATTAT 2840
QY 661 TAATTGTTGACCACTATTATGACCGCCTGGAGCAAGAGCAACAATTTGGTCAACGT 720
Db 2841 TAATTGTTGACCACTATTATGACCGCCTGGAGCAAGAGCAACAATTTGGTCAACGT 2900
QY 721 CCCTCTCTGCGTGATATGTCGAACTGGCTGCTGAATGTTATGATACGGAGCAAGAC 780
Db 2901 CCCTCTCTGCGTGATATGTCGAACTGGCTGCTGAATGTTATGATACGGAGCAAGAC 2960
QY 781 AGGAGGATCCGTGTCCTGCTTTTAAAACTGGCATCATTTCCCTGTGTAAGCACATTT 840
Db 2961 AGGAGGATCCGTGTCCTGCTTTTAAAACTGGCATCATTTCCCTGTGTAAGCACATTT 3020
QY 841 GGAAGACAAGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCAACAGGATTTTGTGACCA 900

Db 3021 GGAAGACAAGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCAACAGGATTTTGTGACCA 3080
QY 901 GCGCAGGCTGGGCGCTCTCTGTCATGATTTCAAAATTTCCAAGACAGTTGGGTGAGT 960
Db 3081 GCGCAGGCTGGGCGCTCTCTGTCATGATTTCAAAATTTCCAAGACAGTTGGGTGAGT 3140
QY 961 TGCATCCTTTGGGGCAGTAACATTGAGCCAAAGTGTCCGAGCTGCTTCCAATTGCTAA 1020
Db 3141 TGCATCCTTTGGGGCAGTAACATTGAGCCAAAGTGTCCGAGCTGCTTCCAATTGCTAA 3200
QY 1021 TAATTAAGCCAGATCGAAGCGGCCCTTCTCTAGACTGATGAGACTGGAACCCAGTC 1080
Db 3201 TAATTAAGCCAGATCGAAGCGGCCCTTCTCTAGACTGATGAGACTGGAACCCAGTC 3260
QY 1081 CATGCTGTGCTGCCGCTCTGTCAGAGTGGCTGCTGCAGAAACTGCCAAGCATCAGGC 1140
Db 3261 CATGCTGTGCTGCCGCTCTGTCAGAGTGGCTGCTGCAGAAACTGCCAAGCATCAGGC 3320
QY 1141 CAAATGTACATCTGCAAAAGAGTGTCCAATCATTTGATTCAGGTACAGAGTCTAAAGCA 1200
Db 3321 CAAATGTACATCTGCAAAAGAGTGTCCAATCATTTGATTCAGGTACAGAGTCTAAAGCA 3380
QY 1201 CTTTAATTATGACATCTGCCAAAGCTGCTTTTCTGTGTCGAGTTGCMAAAGGCCATAA 1260
Db 3381 CTTTAATTATGACATCTGCCAAAGCTGCTTTTCTGTGTCGAGTTGCMAAAGGCCATAA 3440
QY 1261 AATGCACTATCCCATGTGTGAATATTGCACTCCGACTACATCAGAGAGATGTTGAGA 1320
Db 3441 AATGCACTATCCCATGTGTGAATATTGCACTCCGACTACATCAGAGAGATGTTGAGA 3500
QY 1321 CTTTGCCAAAGTACTTAAAAAACAAATTTGCAACCAAAAGTATTTGCGAAGCATCCCCG 1380
Db 3501 CTTTGCCAAAGTACTTAAAAAACAAATTTGCAACCAAAAGTATTTGCGAAGCATCCCCG 3560
QY 1381 AATGGCTACCTGCCAGTGCAGACTGTCTTAAGAGGGGCAACAATGGAATCTCCGACAC 1440
Db 3561 AATGGCTACCTGCCAGTGCAGACTGTCTTAAGAGGGGCAACAATGGAATCTCCGCTTAC 3620
QY 1441 AATG 1444
Db 3621 TCTG 3624

RESULT 9
US-09-949-016-2817
; Sequence 2817, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2817
; LENGTH: 7109
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-2817
Query Match 99.2%; Score 1436; DB 4; Length 7109;
Best Local Similarity 99.7%; Pred. No. 0;
Matches 1439; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 1 GACCCCTTGAAAAGACTCCAGGAACCTTCAAGAGGCCACCGATGAGCTGGACCTCAAGCTGCG 60
DB 2181 GACCCCTTGAAAAGACTCCGGAACTTCAAGAGGCCACCGATGAGCTGGACCTCAAGCTGCG 2240
QY 61 CCAAGCTGAGGTGATCAAGGATCTGGCAGCCCGTGGCGATCTCTCATTTGACTCTCT 120
DB 2241 CCAAGCTGAGGTGATCAAGGATCTGGCAGCCCGTGGCGATCTCTCATTTGACTCTCT 2300
QY 121 CCAAGATCACTCGAGAAAGTCAAGGCACTTCAAGAGAAATTGCGCCTCTGAAAGAGAA 180
DB 2301 CCAAGATCACTCGAGAAAGTCAAGGCACTTCAAGAGAAATTGCGCCTCTGAAAGAGAA 2360
QY 181 CGTAGCCACGTCAATGACCTTGCTCGCCAGCTTACCCTTTGGGCATTCACTCTCACC 240
DB 2361 CGTAGCCACGTCAATGACCTTGCTCGCCAGCTTACCCTTTGGGCATTCACTCTCACC 2420
QY 241 GTATTAACCTCAGCACTCTGGAAGACCTGAACACAGATGGAAGCTTCTGCAAGTGGCCGT 300
DB 2421 GTATTAACCTCAGCACTCTGGAAGACCTGAACACAGATGGAAGCTTCTGCAAGTGGCCGT 2480
QY 301 CGAGGACCGAGTCAAGGAGCTGATGAAGGCCACAGGAGCTTTGGTCCAGCATCTCAGCA 360
DB 2481 CGAGGACCGAGTCAAGGAGCTGATGAAGGCCACAGGAGCTTTGGTCCAGCATCTCAGCA 2540
QY 361 CTTTCTTTCCACGTCTGTCCAGGGTCCCTGGGAGAGAGCCATCTCGCCAAACAAAGTGCC 420
DB 2541 CTTTCTTTCCACGTCTGTCCAGGGTCCCTGGGAGAGAGCCATCTCGCCAAACAAAGTGCC 2600
QY 421 CTACTATATCAACCAAGAGACTCAAAACAATTGCTGGGACCATCCCAAAATGACAGAGCT 480
DB 2601 CTACTATATCAACCAAGAGACTCAAAACAATTGCTGGGACCATCCCAAAATGACAGAGCT 2660
QY 481 CTACCACTTTTAGCTGACCTGAATATATGTCAGATTCTCAGCTTATAGACTGCCATGAA 540
DB 2661 CTACCACTTTTAGCTGACCTGAATATATGTCAGATTCTCAGCTTATAGACTGCCATGAA 2720
QY 541 ACTCCGAAGACTGCAGAAAGGCCCTTGTGCTGGATCTCTTGAGCCTGTGACCTGCATGTA 600
DB 2721 ACTCCGAAGACTGCAGAAAGGCCCTTGTGCTGGATCTCTTGAGCCTGTGACCTGCATGTA 2780
QY 601 TGCCCTTGGACCAACAACCTCAAGCAAAATGACAGCCCATGGAATCTCGACAGATTAT 660
DB 2781 TGCCCTTGGACCAACAACCTCAAGCAAAATGACAGCCCATGGAATCTCGACAGATTAT 2840
QY 661 TAATTGTTGACCACTATTATGACCCGCTGGAAGCAAGACACAACAATTTGGTCAACGT 720
DB 2841 TAATTGTTGACCACTATTATGACCCGCTGGAAGCAAGACACAACAATTTGGTCAACGT 2900
QY 721 CCCTCTCTGGGTGATATGTGTCTGAACCTGGCTGCTGAATGTTTATGATACGGGACGAAC 780
DB 2901 CCCTCTCTGGGTGATATGTGTCTGAACCTGGCTGCTGAATGTTTATGATACGGGACGAAC 2960
QY 781 AGGAGGATCCGTGCTCTGTCTTTTAAACTGGCATCATTTCCCTGTGTAAAGCACATTT 840
DB 2961 AGGAGGATCCGTGCTCTGTCTTTTAAACTGGCATCATTTCCCTGTGTAAAGCACATTT 3020
QY 841 GGAAGACAAGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCAACAGATTTTGTGACCA 900
DB 3021 GGAAGACAAGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCAACAGATTTTGTGACCA 3080
QY 901 GCGCAGGCTGGGCTCTCTTCTGATGATTTCTATCCAAATTCBAAGACAGTTGGGTGAAGT 960
DB 3081 GCGCAGGCTGGGCTCTCTTCTGATGATTTCTATCCAAATTCBAAGACAGTTGGGTGAAGT 3140
QY 961 TGCATCTTTTGGGGGCACTAATGAGCCCAAGTGTCCGAGCTGCTTCCAATTTGCTAA 1020
DB 3141 TGCATCTTTTGGGGGCACTAATGAGCCCAAGTGTCCGAGCTGCTTCCAATTTGCTAA 3200
QY 1021 TAATAAGCAGAGATCGAAGCGGCCCTCTTCTAGACTGATGAGACTGGAACCCAGTCC 1080
DB 3201 TAATAAGCAGAGATCGAAGCGGCCCTCTTCTAGACTGATGAGACTGGAACCCAGTCC 3260
QY 1081 CATGTGTGCTGCCCCGTCTGACAGAGTGGCTGCTGCAAGAACTGCCAAGCATCAGGC 1140

DB 3261 CATGTGTGCTGCCCGCTCCTGACACAGAGTGGCTGTCAGAAACTGCCAAGCATCAGGC 3320
QY 1141 CAATGTAACTCTGCAGAGAGTGTCCAATCATTTGATTCAAGTACAGAGTCTAAAGCA 1200
DB 3321 CAATGTAACTCTGCAGAGAGTGTCCAATCATTTGATTCAAGTACAGAGTCTAAAGCA 3380
QY 1201 CTTTATTTATGACATCTGCCAAAGCTGCTTTTCTTCTGTCGAGTTGCAAAAGGCCATDA 1260
DB 3381 CTTTATTTATGACATCTGCCAAAGCTGCTTTTCTTCTGTCGAGTTGCAAAAGGCCATDA 3440
QY 1261 AATGCACTATCCCATGTGTGGAATATTGCACTCCGACTACATCAGAGAAAGATGTTGAGA 1320
DB 3441 AATGCACTATCCCATGTGTGGAATATTGCACTCCGACTACATCAGAGAAAGATGTTGAGA 3500
QY 1321 CTTTGCCAAGTACTAAAAACAATTTGGAACCAAAAGGTAATTTGCGAAGCATCCCCG 1380
DB 3501 CTTTGCCAAGTACTAAAAACAATTTGGAACCAAAAGGTAATTTGCGAAGCATCCCCG 3560
QY 1381 AATGGCTACTGCTCCAGTGCAGACTGTCTTAGAGGGGGACAAATGGAATCCCGACAC 1440
DB 3561 AATGGCTACTGCTCCAGTGCAGACTGTCTTAGAGGGGGACAAATGGAATCCCGCTTAC 3620
QY 1441 AATG 1444
DB 3621 TCTG 3624

RESULT 10
US-09-949-016-2818
; Sequence 2818, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CLO01307
; CURRENT APPLICATION NUMBER: US/09/949,016
; PRIOR FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2818
; LENGTH: 7109
; TYPE: DNA
; ORGANISM: Human
; US-09-949-016-2818

Query Match 99.2%; Score 1436; DB 4; Length 7109;
Best Local Similarity 99.7%; Pred. No. 0;
Matches 1439; Conservative 0; Mismatches 5; Indels 0; Gaps 0;
QY 1 GACCCCTTGAAAAGACTCCAGGAACCTTCAAGAGGCCACCGATGAGCTGGACCTCAAGCTGCG 60
DB 2181 GACCCCTTGAAAAGACTCCGGAACTTCAAGAGGCCACCGATGAGCTGGACCTCAAGCTGCG 2240
QY 61 CCAAGCTGAGGTGATCAAGGATCTGGCAGCCCGTGGCGATCTCTCATTTGACTCTCT 120
DB 2241 CCAAGCTGAGGTGATCAAGGATCTGGCAGCCCGTGGCGATCTCTCATTTGACTCTCT 2300
QY 121 CCAAGATCACTCGAGAAAGTCAAGGCACTTCAAGAGAAATTGCGCCTCTGAAAGAGAA 180
DB 2301 CCAAGATCACTCGAGAAAGTCAAGGCACTTCAAGAGAAATTGCGCCTCTGAAAGAGAA 2360
QY 181 CGTAGCCACGTCAATGACCTTGCTCGCCAGCTTACCCTTTGGGCATTCACTCTCACC 240
DB 2361 CGTAGCCACGTCAATGACCTTGCTCGCCAGCTTACCCTTTGGGCATTCACTCTCACC 2420

QY 241 GTATTAACCTCAGCACTCTGGAGAAGACCTGAACACGATGGAAGCTTCTGCAAGTGGCCGT 300
 Db 2421 GTATTAACCTCAGCACTCTGGAGAAGACCTGAACACGATGGAAGCTTCTGCAAGTGGCCGT 2480
 QY 301 CGAGGACCCGAGTCAGGAGCTGCATGAAGCCCAAGGAGACTTGTGTCACATCTCAGCA 360
 Db 2481 CGAGGACCCGAGTCAGGAGCTGCATGAAGCCCAAGGAGACTTGTGTCACATCTCAGCA 2540
 QY 361 CTTTCTTTCACGCTGTCTCCAGGGTCCCTGGGAGAGAGCCATCTCGCCAAAACAAGTGCC 420
 Db 2541 CTTTCTTTCACGCTGTCTCCAGGGTCCCTGGGAGAGAGCCATCTCGCCAAAACAAGTGCC 2600
 QY 421 CTACTATATCAACCAAGAGACTCAAAACAATTGCTGGAGCCATCCCAAAATGACAGAGCT 480
 Db 2601 CTACTATATCAACCAAGAGACTCAAAACAATTGCTGGAGCCATCCCAAAATGACAGAGCT 2660
 QY 481 CTACCACTCTTACCTGACCTGAATAATGTCAAGATTCTCAGCTTAAGAGCTGCCATGAA 540
 Db 2661 CTACCACTCTTACCTGACCTGAATAATGTCAAGATTCTCAGCTTAAGAGCTGCCATGAA 2720
 QY 541 ACTCCGAAGACTGCAGAGAGGCCCTTCTGTGATCTCTTGAGCCTGTGAGCTGCATGTA 600
 Db 2721 ACTCCGAAGACTGCAGAGAGGCCCTTCTGTGATCTCTTGAGCCTGTGAGCTGCATGTA 2780
 QY 601 TGCCCTGGACCAAGCAACCTCAAGCAAAATGACAGCCATGATATCTGCAAGATTAT 660
 Db 2781 TGCCCTGGACCAAGCAACCTCAAGCAAAATGACAGCCATGATATCTGCAAGATTAT 2840
 QY 661 TAAATGTTTGAACCACTATTTATGACCGCCTGGAGCAAGACCAACAATTTGTCACAGT 720
 Db 2841 TAAATGTTTGAACCACTATTTATGACCGCCTGGAGCAAGACCAACAATTTGTCACAGT 2900
 QY 721 CCCTCTCTGCGTGATATGTCTGAACTGGCTGCTGAATGTTATGATACGGAGCAAGC 780
 Db 2901 CCCTCTCTGCGTGATATGTCTGAACTGGCTGCTGAATGTTATGATACGGAGCAAGC 2960
 QY 781 AGGAGAGATCCGTGTCTCTGCTTTTAAACTGCGCATCTTCCCTGTGTAAGCACATTT 840
 Db 2961 AGGAGAGATCCGTGTCTCTGCTTTTAAACTGCGCATCTTCCCTGTGTAAGCACATTT 3020
 QY 841 GGAAGACAGTACAGATACCTTTTCAAGCAAGTGCGCAAGTTCACAGAGATTTGTGACCA 900
 Db 3021 GGAAGACAGTACAGATACCTTTTCAAGCAAGTGCGCAAGTTCACAGAGATTTGTGACCA 3080
 QY 901 GCGCAGGCTGGGCTCTCTTCTGATGATTCTATCCAATTCACAGAGTGGTGAAGT 960
 Db 3081 GCGCAGGCTGGGCTCTCTTCTGATGATTCTATCCAATTCACAGAGTGGTGAAGT 3140
 QY 961 TGCATCCTTTGGGGGAGTAACATTGAGCCAAAGTGTCCGAGAGCTCTTCCAATTTGCTAA 1020
 Db 3141 TGCATCCTTTGGGGGAGTAACATTGAGCCAAAGTGTCCGAGAGCTCTTCCAATTTGCTAA 3200
 QY 1021 TAATAAGCCAGAGATCGAAGCGGCTCTCTAGAGCTGAGTGAAGTGAAGCCCAAGTC 1080
 Db 3201 TAATAAGCCAGAGATCGAAGCGGCTCTCTAGAGCTGAGTGAAGTGAAGCCCAAGTC 3260
 QY 1081 CATGGTGTGCTGCCCTCTGCAAGAGTGGCTGCTGCAAGAACTGCCAAGCATCAGCC 1140
 Db 3261 CATGGTGTGCTGCCCTCTGCAAGAGTGGCTGCTGCAAGAACTGCCAAGCATCAGCC 3320
 QY 1141 CAAATGTAACTCTGCAAAAGAGTGTCCAATCATTTGATTCAGGTACAGAGTCTTAAAGCA 1200
 Db 3321 CAAATGTAACTCTGCAAAAGAGTGTCCAATCATTTGATTCAGGTACAGAGTCTTAAAGCA 3380
 QY 1201 CTTTAATATGACATCTGCCAAAGCTGCTTTTCTGCTGAGTTCGCAAAAGGCCATTA 1260
 Db 3381 CTTTAATATGACATCTGCCAAAGCTGCTTTTCTGCTGAGTTCGCAAAAGGCCATTA 3440
 QY 1261 AATGCACTATCCCATGTTGGAATATGCACTCCGACTACATCAGAGAGAGATGTTGAGA 1320
 Db 3441 AATGCACTATCCCATGTTGGAATATGCACTCCGACTACATCAGAGAGAGATGTTGAGA 3500
 QY 1321 CTTTGCCAAGGTACTTAAAAAAACAATTTGCAACCAAAAGGTATTTTGGCAAGCATCCCGC 1380

Db 3501 CTTTGCCAAGGTACTTAAAAAAACAATTTGCAACCAAAAGGTATTTTGGCAAGCATCCCGC 3560
 QY 1381 AATGGCTACCTGCCAGTGCAGAGCTGTCTTAGAGGGGAGACAACATGGAAGTCCGACAC 1440
 Db 3561 AATGGCTACCTGCCAGTGCAGAGCTGTCTTAGAGGGGAGACAACATGGAAGTCCCGTAC 3620
 QY 1441 AATG 1444
 Db 3621 TCTG 3624

RESULT 11
 US-09-949-016-2819
 ; Sequence 2819, Application US/09949016
 ; Patent No. 6812339
 ; GENERAL INFORMATION:
 ; APPLICANT: VENTER, J. Craig et al.
 ; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
 ; FILE REFERENCE: CL001307
 ; CURRENT APPLICATION NUMBER: US/09/949, 016
 ; PRIOR FILING DATE: 2000-04-14
 ; PRIOR FILING DATE: 2000-10-20
 ; PRIOR FILING DATE: 2000-10-20
 ; PRIOR FILING DATE: 2000-10-03
 ; PRIOR APPLICATION NUMBER: 60/231, 498
 ; PRIOR FILING DATE: 2000-09-08
 ; NUMBER OF SEQ ID NOS: 207012
 ; SOFTWARE: FASTSEQ for Windows Version 4.0
 ; SEQ ID NO 2819
 ; LENGTH: 7109
 ; TYPE: DNA
 ; ORGANISM: Human
 ; US-09-949-016-2819

Query Match 99.2%; Score 1436; DB 4; Length 7109;
 Best Local Similarity 99.7%; Pred. No. 0;
 Matches 1439; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 1 GACCCCTGAAAAGACTCCAGGAACCTTCAAGAGGCCACGAGTGAAGCTGAAGTGGC 60
 Db 2181 GACCCCTGAAAAGACTCCGGGAACCTTCAAGAGGCCACGAGTGAAGCTGAAGTGGC 2240
 QY 61 CCAAGCTGAGGTGATCAAGGATCTTGCGAGCCCGTGGCGAATCTCTCATTTGACTCT 120
 Db 2241 CCAAGCTGAGGTGATCAAGGATCTTGCGAGCCCGTGGCGAATCTCTCATTTGACTCT 2300
 QY 121 CCAAGATCACTCGAAGAAAGTCAAGGCACTTGAGAGAAATTGCGCTCTGAAGAGAA 180
 Db 2301 CCAAGATCACTCGAAGAAAGTCAAGGCACTTGAGAGAAATTGCGCTCTGAAGAGAA 2360
 QY 181 CGTAGCCAGCTCAATGACCTTGCTGCGCAGCTTACCACTTTGGGCAATTGAGCTCTCAC 240
 Db 2361 CGTAGCCAGCTCAATGACCTTGCTGCGCAGCTTACCACTTTGGGCAATTGAGCTCTCAC 2420
 QY 241 GTATAAAGCTGAGCACTTGGAAGACCTGAACACCAAGATGGAAGCTTCTGAGTGGCCGT 300
 Db 2421 GTATAAAGCTGAGCACTTGGAAGACCTGAACACCAAGATGGAAGCTTCTGAGTGGCCGT 2480
 QY 301 CGAGGACCGAGTCAAGGCACTGATGAAGCCCAAGGAACTTTGGTCCAGATCTCAGCA 360
 Db 2481 CGAGGACCGAGTCAAGGCACTGATGAAGCCCAAGGAACTTTGGTCCAGATCTCAGCA 2540
 QY 361 CTTTCTTTCACGCTGTCTCCAGGGTCCCTGGGAGAGAGCCATCTCGCCAAAACAAGTGCC 420
 Db 2541 CTTTCTTTCACGCTGTCTCCAGGGTCCCTGGGAGAGAGCCATCTCGCCAAAACAAGTGCC 2600
 QY 421 CTACTATATCAACCAAGAGACTCAAAACAATTGCTGGAGCCATCCCAAAATGACAGAGCT 480
 Db 2601 CTACTATATCAACCAAGAGACTCAAAACAATTGCTGGAGCCATCCCAAAATGACAGAGCT 2660

QY 481 CTACCACTTTAGCTGACCTGAAATATGTCAGATTCTCAGCTTATAGACTGCCATGAA 540
| | | | |
Db 2661 CTACCACTTTAGCTGACCTGAAATATGTCAGATTCTCAGCTTATAGACTGCCATGAA 2720
QY 541 ACTCCGAAGACTCAGAAAGCCCTTGTGATCTCTTGAGCCTGTGACCTGCATGTGA 600
| | | | |
Db 2721 ACTCCGAAGACTCAGAAAGCCCTTGTGATCTCTTGAGCCTGTGACCTGCATGTGA 2780
QY 601 TGCCTTGACCAACAACCTCAAGCAAAATGACCAAGCCCATGATATCTGCAGATTAT 660
| | | | |
Db 2781 TGCCTTGACCAACAACCTCAAGCAAAATGACCAAGCCCATGATATCTGCAGATTAT 2840
QY 661 TAATTGTTGACCACTATTATGACCGCCTGAGCAAGACACAACAATTGGTCAACGT 720
| | | | |
Db 2841 TAATTGTTGACCACTATTATGACCGCCTGAGCAAGACACAACAATTGGTCAACGT 2900
QY 721 CCCTCTCTGCGTGATATGTGTCTGAACCTGCTGTAATGTTATGATACGGGACGAAC 780
| | | | |
Db 2901 CCCTCTCTGCGTGATATGTGTCTGAACCTGCTGTAATGTTATGATACGGGACGAAC 2960
QY 781 AGGAGGATCCGTGCTCTGCTTTTAAACTGCGCATATTTCCCTGTGTAAGCACATTT 840
| | | | |
Db 2961 AGGAGGATCCGTGCTCTGCTTTTAAACTGCGCATATTTCCCTGTGTAAGCACATTT 3020
QY 841 GGAAGACAAGTACAGATACCTTTCAAGCAAGTGGCAAGTTCAACAGATTGTGACCA 900
| | | | |
Db 3021 GGAAGACAAGTACAGATACCTTTCAAGCAAGTGGCAAGTTCAACAGATTGTGACCA 3080
QY 901 GCGCAGGCTGGGCTCTTCTGTCATGATTTTCAAAATTCGAAGACAGTTGGGTGAAGT 960
| | | | |
Db 3081 GCGCAGGCTGGGCTCTTCTGTCATGATTTTCAAAATTCGAAGACAGTTGGGTGAAGT 3140
QY 961 TGCATCCTTTGGGGGAGTAACATTGAGCCAAAGTCCGAGCTGCTTCAATTGCTAA 1020
| | | | |
Db 3141 TGCATCCTTTGGGGGAGTAACATTGAGCCAAAGTCCGAGCTGCTTCAATTGCTAA 3200
QY 1021 TAATAAGCCAGAGATCGAAGCGCCCTTCTCTAGACTGAGTGAAGTGAAGTGAAGTCC 1080
| | | | |
Db 3201 TAATAAGCCAGAGATCGAAGCGCCCTTCTCTAGACTGAGTGAAGTGAAGTGAAGTCC 3260
QY 1081 CATGCTGTGGCTGCCCTCTGTCAGAGAGTGGCTGCAAGAACTGCCAAGCATCAGGC 1140
| | | | |
Db 3261 CATGCTGTGGCTGCCCTCTGTCAGAGAGTGGCTGCAAGAACTGCCAAGCATCAGGC 3320
QY 1141 CAAATGTAACTCTGCAAAAGAGTGTCCAATCATTTGATTCAAGTACAGAGTCTAAAGCA 1200
| | | | |
Db 3321 CAAATGTAACTCTGCAAAAGAGTGTCCAATCATTTGATTCAAGTACAGAGTCTAAAGCA 3380
QY 1201 CTTTAATTATGACATCTGCCAAAGCTGCTTTTCTGCTGAGTTCGAAAAGCCATTA 1260
| | | | |
Db 3381 CTTTAATTATGACATCTGCCAAAGCTGCTTTTCTGCTGAGTTCGAAAAGCCATTA 3440
QY 1261 AATGCACTATCCCATGCTGGAATATTGCACTCCGACTACATCAGAGAGAAGTGTTCGAGA 1320
| | | | |
Db 3441 AATGCACTATCCCATGCTGGAATATTGCACTCCGACTACATCAGAGAGAAGTGTTCGAGA 3500
QY 1321 CTTTGCCAAGTACTAAAAACAATTTGGAACCAAAAGTATTTTGGGAAGCATCCCGC 1380
| | | | |
Db 3501 CTTTGCCAAGTACTAAAAACAATTTGGAACCAAAAGTATTTTGGGAAGCATCCCGC 3560
QY 1381 AATGGGCTACCTGCGCACTGACAGACTGTCTTGAAGGGGGAACAACATGGAATCTCCGACAC 1440
| | | | |
Db 3561 AATGGGCTACCTGCGCACTGACAGACTGTCTTGAAGGGGGAACAACATGGAATCTCCGTTAC 3620
QY 1441 AATG 1444
| |
Db 3621 TCTG 3624

RESULT 12
US-09-949-016-2820
; Sequence 2820, Application US/09949016
; Patent No. 6812339

; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; PRIOR FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2820
; LENGTH: 7109
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-2820

Query Match 99.2%; Score 1436; DB 4; Length 7109;
Best Local Similarity 99.7%; Pred. No. 0;
Matches 1439; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 1 GACCCTTGAAAGACTCCAGAACTTCAAGAGGCCACGGATGAGCTGACCTCAAGCTGCG 60
| | | | |
Db 2181 GACCCTTGAAAGACTCCGGAACTTCAAGAGGCCACGGATGAGCTGACCTCAAGCTGCG 2240
QY 61 CCAAGCTGAGGTATCAAGGATCTGCGAGCCCGTGGCGATCTCTCATTTGACTCTCT 120
| | | | |
Db 2241 CCAAGCTGAGGTATCAAGGATCTGCGAGCCCGTGGCGATCTCTCATTTGACTCTCT 2300
QY 121 CCAAGTACCTCGAAGAAAGTCAAGGCACTTCGAGAGAAATTGCGCTCGAAAGAGAA 180
| | | | |
Db 2301 CCAAGTACCTCGAAGAAAGTCAAGGCACTTCGAGAGAAATTGCGCTCGAAAGAGAA 2360
QY 181 CGTAGCCACGTCAATGACCTGTGCGCCACTTACCACTTTGGGCAATTCAGCTCTCACC 240
| | | | |
Db 2361 CGTAGCCACGTCAATGACCTGTGCGCCACTTACCACTTTGGGCAATTCAGCTCTCACC 2420
QY 241 GTATAACCTCAGACCTCTGGAAGACCTGAACAACAGATGGAAGCTTCTGAGGTGCGCGT 300
| | | | |
Db 2421 GTATAACCTCAGACCTCTGGAAGACCTGAACAACAGATGGAAGCTTCTGAGGTGCGCGT 2480
QY 301 CGAGGACCGAGTCAGGACGCTGCATGAAGCCCAAGGACTTTGTCTCAGCATCTCAGCA 360
| | | | |
Db 2481 CGAGGACCGAGTCAGGACGCTGCATGAAGCCCAAGGACTTTGTCTCAGCATCTCAGCA 2540
QY 361 CTTTCTTTCAGGCTGTGTCAGGAGTCCCTGGGAGAGAGCCATCTGCGCAACAAGTGGCC 420
| | | | |
Db 2541 CTTTCTTTCAGGCTGTGTCAGGAGTCCCTGGGAGAGAGCCATCTGCGCAACAAGTGGCC 2600
QY 421 CTACTATATCAACCAAGACTCAAAACAATTGCTGGGAGCCATCCCAAAATGACAGAGCT 480
| | | | |
Db 2601 CTACTATATCAACCAAGACTCAAAACAATTGCTGGGAGCCATCCCAAAATGACAGAGCT 2660
QY 481 CTACCACTCTTTAGCTGACCTGAATATGTCAGATTCTCAGCTTATAGACTGCCATGAA 540
| | | | |
Db 2661 CTACCACTCTTTAGCTGACCTGAATATGTCAGATTCTCAGCTTATAGACTGCCATGAA 2720
QY 541 ACTCCGAAGACTCAGAAAGCCCTTGTGATCTCTTGAGCCTGTGACCTGCATGTGA 600
| | | | |
Db 2721 ACTCCGAAGACTCAGAAAGCCCTTGTGATCTCTTGAGCCTGTGACCTGCATGTGA 2780
QY 601 TGCCTTGACCAACAACCTCAAGCAAAATGACCAAGCCCATGATATCTGCAGATTAT 660
| | | | |
Db 2781 TGCCTTGACCAACAACCTCAAGCAAAATGACCAAGCCCATGATATCTGCAGATTAT 2840
QY 661 TAATTGTTGACCACTATTATGACCGCCTGAGCAAGAGACAACAATTGGTCAACGT 720
| | | | |
Db 2841 TAATTGTTGACCACTATTATGACCGCCTGAGCAAGAGACAACAATTGGTCAACGT 2900


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QY 721 CCCTCTCTGCGTGATATGTGTCTGAACTGGCTGCTGAATGTTATGATACGGGACGAAC 780
    |||
Db 2901 CCCTCTCTGCGTGATATGTGTCTGAACTGGCTGCTGAATGTTATGATACGGGACGAAC 2960

QY 781 AGGAGGATCCGTGCTCTGCTTTTAAACGTGCATCATTTCCCTGTGTAAGCACATTT 840
    |||
Db 2961 AGGAGGATCCGTGCTCTGCTTTTAAACGTGCATCATTTCCCTGTGTAAGCACATTT 3020

QY 841 GGAAGACAAGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCAACAGATTGTTGACCA 900
    |||
Db 3021 GGAAGACAAGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCAACAGATTGTTGACCA 3080

QY 901 GCGCAGGCTGGGCTCTTCTGATGATTTCTAATCCAAATCCAAAGACAGTTGGTGAAGT 960
    |||
Db 3081 GCGCAGGCTGGGCTCTTCTGATGATTTCTAATCCAAATCCAAAGACAGTTGGTGAAGT 3140

QY 961 TGCATCCTTTGGGGGCAATACATTTGAGCCAGTGTCCGAGCTGCTTCAATTGCTAA 1020
    |||
Db 3141 TGCATCCTTTGGGGGCAATACATTTGAGCCAGTGTCCGAGCTGCTTCAATTGCTAA 3200

QY 1021 TAATTAAGCCAGAGATCGAAGCGGCCCTCTTCTAGA CTGATGAGACTGGAA CCCCAGTC 1080
    |||
Db 3201 TAATTAAGCCAGAGATCGAAGCGGCCCTCTTCTAGA CTGATGAGACTGGAA CCCCAGTC 3260

QY 1081 CATGTGTGCTGCCCTCTCTGCACAGAGTGGCTCTGCAGAAACTGCCACATCAGGC 1140
    |||
Db 3261 CATGTGTGCTGCCCTCTCTGCACAGAGTGGCTCTGCAGAAACTGCCACATCAGGC 3320

QY 1141 CAAATGTAACTCTGCAAAAGAGTGTCCAATCATTTGATTGAGTACAGAGTCTAAAGCA 1200
    |||
Db 3321 CAAATGTAACTCTGCAAAAGAGTGTCCAATCATTTGATTGAGTACAGAGTCTAAAGCA 3380

QY 1201 CTTTAATTATGACATCTGCCAAAGCTGTTTTTTCTGTCGAGTTGCAAAAGCCATAA 1260
    |||
Db 3381 CTTTAATTATGACATCTGCCAAAGCTGTTTTTTCTGTCGAGTTGCAAAAGCCATAA 3440

QY 1261 AATGCACTATCCATGTGTGAATATTGCACTCCGACTACATCAGAGAGAAGATGTTGAGA 1320
    |||
Db 3441 AATGCACTATCCATGTGTGAATATTGCACTCCGACTACATCAGAGAGAAGATGTTGAGA 3500

QY 1321 CTTTGCCAAAGTACTAAAAAAACAATTTGAA CCAAAAGGTATTTTGGGAAGCATCCCG 1380
    |||
Db 3501 CTTTGCCAAAGTACTAAAAAAACAATTTGAA CCAAAAGGTATTTTGGGAAGCATCCCG 3560

QY 1381 AATGGGCTACTGCGCAGTGCAGACTGTCTTGAAGGGGGAACAACATGAAA CTCCGACAC 1440
    |||
Db 3561 AATGGGCTACTGCGCAGTGCAGACTGTCTTGAAGGGGGAACAACATGAAA CTCCGTTAC 3620

QY 1441 AATG 1444
    ||
Db 3621 TCTG 3624

RESULT 13
US-09-949-016-2822
; Sequence 2822, Application us/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2822
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; LENGTH: 7141
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-2822

Query Match          99.2%; Score 1436; DB 4; Length 7141;
Best Local Similarity 99.7%; Pred. No. 0;
Matches 1439; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 1 GACCCCTGAAAGACTCCAGGAATTCAGAGGCCACCGATGAGCTGGAACCTCAAGCTGCG 60
    |||
Db 2181 GACCCCTGAAAGACTCCGGAACCTTCAAGAGGCCACCGATGAGCTGGAACCTCAAGCTGCG 2240

QY 61 CCAAGCTGAGGTGATCAAGGGATCTGGCAGCCCGTGGCGATCTCTCATTTGACTCTCT 120
    |||
Db 2241 CCAAGCTGAGGTGATCAAGGGATCTGGCAGCCCGTGGCGATCTCTCATTTGACTCTCT 2300

QY 121 CCAAGATCACTTCGAGAAAGTCAAGGCACTTCGAGAGAAATGCGCTCTGAAAGAGAA 180
    |||
Db 2301 CCAAGATCACTTCGAGAAAGTCAAGGCACTTCGAGAGAAATGCGCTCTGAAAGAGAA 2360

QY 181 CGTAGCCACGTCAATGACCTTGTGCGCCAGCTTACCACTTTGGGCATTCAAGCTCTACC 240
    |||
Db 2361 CGTAGCCACGTCAATGACCTTGTGCGCCAGCTTACCACTTTGGGCATTCAAGCTCTACC 2420

QY 241 GTATAACTCTCAGCACTCTGGAAGACCTGAACACCAAGATGGAAGCTTCTCAGGTGGCCGT 300
    |||
Db 2421 GTATAACTCTCAGCACTCTGGAAGACCTGAACACCAAGATGGAAGCTTCTCAGGTGGCCGT 2480

QY 301 CGAGGACCGAGTCAAGGAGCTGATGAAGCCACAGAGGACTTTGGTCCAGCATCTCAGCA 360
    |||
Db 2481 CGAGGACCGAGTCAAGGAGCTGATGAAGCCACAGAGGACTTTGGTCCAGCATCTCAGCA 2540

QY 361 CTTTCTTTCCAAGTCTGTCCAGGCTCCCTGGAGAGAGAGCCATCTGCCAAACAAGTGCC 420
    |||
Db 2541 CTTTCTTTCCAAGTCTGTCCAGGCTCCCTGGAGAGAGAGCCATCTGCCAAACAAGTGCC 2600

QY 421 CTACTATATCAACCAAGAGACTGAAACCACTTGTGAGACCAATCCCAATGACAGAGCT 480
    |||
Db 2601 CTACTATATCAACCAAGAGACTGAAACCACTTGTGAGACCAATCCCAATGACAGAGCT 2660

QY 481 CTACCACTCTTAACTGACCTGAAATATGTCAAGATTCTCAGCTTATAGACTGCCATGAA 540
    |||
Db 2661 CTACCACTCTTAACTGACCTGAAATATGTCAAGATTCTCAGCTTATAGACTGCCATGAA 2720

QY 541 ACTCCGAAGACTGCAGAAAGGCCCTTTGCTTGATCTCTTGAGCCTGTCAAGTGCATGTGA 600
    |||
Db 2721 ACTCCGAAGACTGCAGAAAGGCCCTTTGCTTGATCTCTTGAGCCTGTCAAGTGCATGTGA 2780

QY 601 TGCCTTGAACGACCAACCTCAAGCAAAATGACCAAGCCCATGAGATATCTGCAGATTAT 660
    |||
Db 2781 TGCCTTGAACGACCAACCTCAAGCAAAATGACCAAGCCCATGAGATATCTGCAGATTAT 2840

QY 661 TAATTTTGAACCACTATTATGACCGCTGAGCAAGAGCAACAATTTGTCAACGT 720
    |||
Db 2841 TAATTTTGAACCACTATTATGACCGCTGAGCAAGAGCAACAATTTGTCAACGT 2900

QY 721 CCCTCTCTGCGTGATATGTGTCTGAACTGGCTGCTGAATGTTATGATACGGGACGAAC 780
    |||
Db 2901 CCCTCTCTGCGTGATATGTGTCTGAACTGGCTGCTGAATGTTATGATACGGGACGAAC 2960

QY 781 AGGAGGATCCGTGCTCTGCTTTTAAACGTGCATCATTTCCCTGTGTAAGCACATTT 840
    |||
Db 2961 AGGAGGATCCGTGCTCTGCTTTTAAACGTGCATCATTTCCCTGTGTAAGCACATTT 3020

QY 841 GGAAGACAAGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCAACAGATTGTTGACCA 900
    |||
Db 3021 GGAAGACAAGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCAACAGATTGTTGACCA 3080

QY 901 GCGCAGGCTGGGCTCTTCTGATGATTTCTAATCCAAATCCAAAGACAGTTGGTGAAGT 960
    |||
Db 3081 GCGCAGGCTGGGCTCTTCTGATGATTTCTAATCCAAATCCAAAGACAGTTGGTGAAGT 3140
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QY	961	TGCATCCTTTGGGGGAGTAACATTGAGCCAAAGTGTCCGGAGCTGCTTCCAATTTGCTAA	1020
Db	3141	TGCATCCTTTGGGGGAGTAACATTGAGCCAAAGTGTCCGGAGCTGCTTCCAATTTGCTAA	3200
QY	1021	TAATAAGCCAGAGATCGAAGCGGCCCTCTTCTGAGACTGGATGAGACTGGAACTCCCACTC	1080
Db	3201	TAATAAGCCAGAGATCGAAGCGGCCCTCTTCTGAGACTGGATGAGACTGGAACTCCCACTC	3260
QY	1081	CATGCTGTGGCTGCCCGTCTGCACAGAGTGGCTGCTGCAGAACTGCCAAGCATCAGGC	1140
Db	3261	CATGCTGTGGCTGCCCGTCTGCACAGAGTGGCTGCTGCAGAACTGCCAAGCATCAGGC	3320
QY	1141	CAAAATGTAAACATCTGCAAAAGAGTGTCCAATCATTTGGAATTCAGGTACAGGAGTCTAAAGCA	1200
Db	3321	CAAAATGTAAACATCTGCAAAAGAGTGTCCAATCATTTGGAATTCAGGTACAGGAGTCTAAAGCA	3380
QY	1201	CTTTAATTATGACATCTGCCAAAGCTGCTTTTCTGCTCGAGTTGCAAAAGGCCATAA	1260
Db	3381	CTTTAATTATGACATCTGCCAAAGCTGCTTTTCTGCTCGAGTTGCAAAAGGCCATAA	3440
QY	1261	AATGCACTATCCCATGTGTGGAATATTGCACTCCGACTACATCAGGAGAAGATGTTGAGA	1320
Db	3441	AATGCACTATCCCATGTGTGGAATATTGCACTCCGACTACATCAGGAGAAGATGTTGAGA	3500
QY	1321	CTTTGCCAAGGTACTAAAAAACAATTTTCGAACCAAAAGGTATTTTGCGAAGCATCCCCG	1380
Db	3501	CTTTGCCAAGGTACTAAAAAACAATTTTCGAACCAAAAGGTATTTTGCGAAGCATCCCCG	3560
QY	1381	AATGGGCTACCTGCCAGTGCAGACTGTCTTAGAGGGGGACAACATGGAAACTCCGCACAC	1440
Db	3561	AATGGGCTACCTGCCAGTGCAGACTGTCTTAGAGGGGGACAACATGGAAACTCCGCCTAC	3620
QY	1441	AATG 1444	
Db	3621	TCTG 3624	

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RESULT 14
US-09-949-016-2823
; Sequence 2823, Application US/09949016
; Patent No. 681239
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949, 016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2823
; LENGTH: 7141
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-2823

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Query Match	99.2%	Score 1436	DB 4	Length 7141
Best Local Similarity	99.7%	Pred. No. 0		
Matches 1439	Conservative	0	Mismatches 5	Indels 0
			Gaps	0
QY 1	GACCCCTTGAAAGACTCCAGGAACCTCAAGAGGCCACGAGATGAGCTGGAACCTCAAGCTGCG	60		
DB 2181	GACCCCTTGAAAGACTCCGGGAACCTCAAGAGGCCACGAGATGAGCTGGAACCTCAAGCTGCG	2240		
QY 61	CCAAGCTGAGGTGATCAAGGGATCCTGGCAGCCCGTGGCGGATCTCCTCATTTGACTCTCT	120		
DB 2241	CCAAGCTGAGGTGATCAAGGGATCCTGGCAGCCCGTGGCGGATCTCCTCATTTGACTCTCT	2300		

QY	121	CCAAGATCACCTCGAGAAAAGTCAAGGCACTTCGAGGAGAAATTGCCCTCTGAAAAGAA	180
Db	2301	CCAAGATCACCTCGAGAAAAGTCAAGGCACTTCGAGGAGAAATTGCCCTCTGAAAAGAA	2360
QY	181	CGTGAGCCACGTCATGACCTTGCTCGCCAGCTTACCACCTTTGGGCATTCAGCTCTCACC	240
Db	2361	CGTGAGCCACGTCATGACCTTGCTCGCCAGCTTACCACCTTTGGGCATTCAGCTCTCACC	2420
QY	241	GTATAACCTCAGCACTCTGGAAGACCTGAACCAAGATGGAAGCTTCTGCAGGTGCCCGT	300
Db	2421	GTATAACCTCAGCACTCTGGAAGACCTGAACCAAGATGGAAGCTTCTGCAGGTGCCCGT	2480
QY	301	CGAGGACCGAGTCAGGCAAGCTGCATGAAGCCCAAGGGACTTTGGTCCAGCATCTCAGCA	360
Db	2481	CGAGGACCGAGTCAGGCAAGCTGCATGAAGCCCAAGGGACTTTGGTCCAGCATCTCAGCA	2540
QY	361	CTTTCTTCCACGTCTGTCCAGGGTCCCTGGAGAGAGCCATCTCGCCAAACAAAGTGCC	420
Db	2541	CTTTCTTCCACGTCTGTCCAGGGTCCCTGGAGAGAGCCATCTCGCCAAACAAAGTGCC	2600
QY	421	CTACTATATCAACCAAGAGACTCAAAACAATTGCTGGAGCCATCCCAAAATGACAGAGCT	480
Db	2601	CTACTATATCAACCAAGAGACTCAAAACAATTGCTGGAGCCATCCCAAAATGACAGAGCT	2660
QY	481	CTACCAAGCTTTAGCTGACCTGAATATATGTACAGATTCTCAGCTTATAGACTGCCATGAA	540
Db	2661	CTACCAAGCTTTAGCTGACCTGAATATATGTACAGATTCTCAGCTTATAGACTGCCATGAA	2720
QY	541	ACTCCGAAGACTGCGAAGAGGCCCTTGTGCTTGGATCTCTTGAGCCTGTCAAGTGCATGTGA	600
Db	2721	ACTCCGAAGACTGCGAAGAGGCCCTTGTGCTTGGATCTCTTGAGCCTGTCAAGTGCATGTGA	2780
QY	601	TGCCCTTGACCAACAACCTCAAGCAAAATGACCAGCCATGATATCTGCAGATTAT	660
Db	2781	TGCCCTTGACCAACAACCTCAAGCAAAATGACCAGCCATGATATCTGCAGATTAT	2840
QY	661	TAATTGTTGACCACTATTATGACCGCGTGAGCAAGAGCAACAACAATTGGTCAACGT	720
Db	2841	TAATTGTTGACCACTATTATGACCGCGTGAGCAAGAGCAACAACAATTGGTCAACGT	2900
QY	721	CCCTCTCGCGTGATATGTGTCTGAACCTGCGCTGGAATGTTATGATACGGGACGAAC	780
Db	2901	CCCTCTCGCGTGATATGTGTCTGAACCTGCGCTGGAATGTTATGATACGGGACGAAC	2960
QY	781	AGGAGGATCCGTGTCCTGCTTTTAAACCTGGCATCATTTCCCTGTGTAAGCACATTT	840
Db	2961	AGGAGGATCCGTGTCCTGCTTTTAAACCTGGCATCATTTCCCTGTGTAAGCACATTT	3020
QY	841	GGAAGACAAGTACAGATACCTTTCAAGCAAGTGGAAGTTCAACAGATTTTGTGACCA	900
Db	3021	GGAAGACAAGTACAGATACCTTTCAAGCAAGTGGAAGTTCAACAGATTTTGTGACCA	3080
QY	901	GCGCAGGCTGGGCTCTTCTGCATGATTTCTATCCAAATTCACAAGACAGTTGGGTGAAGT	960
Db	3081	GCGCAGGCTGGGCTCTTCTGCATGATTTCTATCCAAATTCACAAGACAGTTGGGTGAAGT	3140
QY	961	TGCATCCTTTGGGGCAGTAACATTGAGCCAAAGTGTCCGGAGCTGCTTCCAATTTGCTAA	1020
Db	3141	TGCATCCTTTGGGGCAGTAACATTGAGCCAAAGTGTCCGGAGCTGCTTCCAATTTGCTAA	3200
QY	1021	TAATAAGCCAGAGATCGAAGCGGCCCTCTTCTTGAAGCTGATGAGACTGGAACCCAGTC	1080
Db	3201	TAATAAGCCAGAGATCGAAGCGGCCCTCTTCTTGAAGCTGATGAGACTGGAACCCAGTC	3260
QY	1081	CATGCTGTGGCTGCCGTCTGACACAGATGGCTGCTGCAGAAACTGCCAAGCATCAGGC	1140
Db	3261	CATGCTGTGGCTGCCGTCTGACACAGATGGCTGCTGCAGAAACTGCCAAGCATCAGGC	3320
QY	1141	CAATGTAAACATCTGCAAAAGAGTGTCCAATCATTTGATTCAAGTACAGAGCTTAAAGCA	1200
Db	3321	CAATGTAAACATCTGCAAAAGAGTGTCCAATCATTTGATTCAAGTACAGAGCTTAAAGCA	3380

OY	1021	TAATAAGCCAGAGATCGAAGCGGCCCTCTTCTTAGACTGGATGAGACTGGAACCCCAGTC	1080
Db	3201	TAATAAGCCAGAGATCGAAGCGGCCCTCTTCTTAGACTGGATGAGACTGGAACCCCAGTC	3260
OY	1081	CATGTGTGGCTGCCCGTCCCTGCACAGAGTGCGTGCAGAAACTGCCAAGCATCAGGC	1140
Db	3261	CATGTGTGGCTGCCCGTCCCTGCACAGAGTGCGTGCAGAAACTGCCAAGCATCAGGC	3320
OY	1141	CAATGTACATCTGCCAAGAGTGTCCAATCATTTGGATTCAAGTACAGAGTCTAAAGCA	1200
Db	3321	CAATGTACATCTGCCAAGAGTGTCCAATCATTTGGATTCAAGTACAGAGTCTAAAGCA	3380

QY 1201 CTTTAATTATGACATCTGCCAAGCTGCTTTTCTGTGCGAGTTGCAAAAGGCCATTA 1260
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Db 3381 CTTTAATTATGACATCTGCCAAGCTGCTTTTCTGTGCGAGTTGCAAAAGGCCATTA 3440
QY 1261 AATGCACTATCCCATGTGTGAATATTTGCACTCCGACTACATCAGAGAAAGATGTTGAGA 1320
Db |||||
Db 3441 AATGCACTATCCCATGTGTGAATATTTGCACTCCGACTACATCAGAGAAAGATGTTGAGA 3500
QY 1321 CTTTGCCAAGGTACTAAAAACAATTTGCAACCAAAAGTATTTGGCAAGCATCCCCG 1380
Db |||||
Db 3501 CTTTGCCAAGGTACTAAAAACAATTTGCAACCAAAAGTATTTGGCAAGCATCCCCG 3560
QY 1381 AATGGGCTACCTGCCAGTGCAGACTGTCTTGAAGGGGGACAACATGGAAACTCCGACAC 1440
Db |||||
Db 3561 AATGGGCTACCTGCCAGTGCAGACTGTCTTGAAGGGGGACAACATGGAAACTCCGCTTAC 3620
QY 1441 AATG 1444
Db 3621 TCTG 3624

RESULT 15

US-09-949-016-2824
; Sequence 2824, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; PRIOR FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2824
; LENGTH: 7141
; TYPE: DNA
; ORGANISM: Human
us-09-949-016-2824

Query Match 99.2%; Score 1436; DB 4; Length 7141;
Best Local Similarity 99.7%; Pred. No. 0;
Matches 1439; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 1 GACCCCTGAAGAAGCTCCAGGAAGCTTCAAGAGGCCACGAGATGAGTGAAGCTCAAGCTGCG 60
Db |||||
Db 2181 GACCCCTGAAGAAGCTCCGGAAGCTTCAAGAGGCCACGAGATGAGTGAAGCTCAAGCTGCG 2240
QY 61 CCAAGCTGAGGTGATCAAGGGATCTGCGCAGCCCGTGGCGATCTCCTCATTTGACTCTCT 120
Db |||||
Db 2241 CCAAGCTGAGGTGATCAAGGGATCTGCGCAGCCCGTGGCGATCTCCTCATTTGACTCTCT 2300
QY 121 CCAAGATCACTCGAGAAAGTCAAGGCCACTTGAAGAGAAATTGCGCCTCTGAAGAAGAA 180
Db |||||
Db 2301 CCAAGATCACTCGAGAAAGTCAAGGCCACTTGAAGAGAAATTGCGCCTCTGAAGAAGAA 2360
QY 181 CGTAGGCCACGTCATGACCTTGTCTGCGCAGCTTACCACTTTGGGCAATTCAGCTCTCACC 240
Db |||||
Db 2361 CGTAGGCCACGTCATGACCTTGTCTGCGCAGCTTACCACTTTGGGCAATTCAGCTCTCACC 2420
QY 241 GTATAAAGCTCAGCACTCTGGAAGACCTGAACACAGATGGAAGCTTCTGCAAGTGGCCGT 300
Db |||||
Db 2421 GTATAAAGCTCAGCACTCTGGAAGACCTGAACACAGATGGAAGCTTCTGCAAGTGGCCGT 2480
QY 301 CGAGGACCGAGTCAAGGCACTGATGAAGCCCAAGGGAAGCTTTGGTCCAGCATCTCAGCA 360
Db |||||
Db 2481 CGAGGACCGAGTCAAGGCACTGATGAAGCCCAAGGGAAGCTTTGGTCCAGCATCTCAGCA 2540

QY 361 CTTTCTTTCCACGTCGTGCCAGGGTCCCTGGGAGAGAGCCATCTCGCCAAACAAGTGCC 420
Db |||||
Db 2541 CTTTCTTTCCACGTCGTGCCAGGGTCCCTGGGAGAGAGCCATCTCGCCAAACAAGTGCC 2600
QY 421 CTACTATATCAACCAAGAGACTCAACAACCTTGTGGAGCCATCCAAAATGACAGAGCT 480
Db |||||
Db 2601 CTACTATATCAACCAAGAGACTCAACAACCTTGTGGAGCCATCCAAAATGACAGAGCT 2660
QY 481 CTACAGTCTTTAGCTGACCTGAATATGTTCAGATTCTCAGCTTATAGAGCTGCCATGA 540
Db |||||
Db 2661 CTACAGTCTTTAGCTGACCTGAATATGTTCAGATTCTCAGCTTATAGAGCTGCCATGA 2720
QY 541 ACTCCGAAGACTGCAGAAAGGCCCTTTGCTTGATCTCTGAGCCTGTGAGCTGCAATGTA 600
Db |||||
Db 2721 ACTCCGAAGACTGCAGAAAGGCCCTTTGCTTGATCTCTGAGCCTGTGAGCTGCAATGTA 2780
QY 601 TGCCCTGACACGACCAACCTCAAGCAAAATGACCGCCATGATATCTGCAGATTAT 660
Db |||||
Db 2781 TGCCCTGACACGACCAACCTCAAGCAAAATGACCGCCATGATATCTGCAGATTAT 2840
QY 661 TAATGTTTGAACCACTATTATGACCGCCTGAGCAAGACCAACAATTTGGTCAAGCT 720
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Db 2841 TAATGTTTGAACCACTATTATGACCGCCTGAGCAAGACCAACAATTTGGTCAAGCT 2900
QY 721 CCCTCTGCGGTGATATGTGTCTGAAGTGGCTGTAATGTTATGATACGGAGCAAC 780
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Db 2901 CCCTCTGCGGTGATATGTGTCTGAAGTGGCTGTAATGTTATGATACGGAGCAAC 2960
QY 781 AGGAGGATCCGTGTCTGCTTTTAAACTGCGCATATTTCCCTGTAAAGCACATTT 840
Db |||||
Db 2961 AGGAGGATCCGTGTCTGCTTTTAAACTGCGCATATTTCCCTGTAAAGCACATTT 3020
QY 841 GGAAGACAAGTACAGATACCTTTTCAAGCAAGTGCGCAAGTTCAACAGATTTGTGACCA 900
Db |||||
Db 3021 GGAAGACAAGTACAGATACCTTTTCAAGCAAGTGCGCAAGTTCAACAGATTTGTGACCA 3080
QY 901 GCGCAGGCTGGGCTCTCTTCTGCAATGATCTATCCAAATTCACAGACAGTTGGGTGAAGT 960
Db |||||
Db 3081 GCGCAGGCTGGGCTCTCTTCTGCAATGATCTATCCAAATTCACAGACAGTTGGGTGAAGT 3140
QY 961 TGCATCTTTGGGGGAGTAACATGAGCCAAAGTGCAGAGCTGCTTCCATTTGCTAA 1020
Db |||||
Db 3141 TGCATCTTTGGGGGAGTAACATGAGCCAAAGTGCAGAGCTGCTTCCATTTGCTAA 3200
QY 1021 TAATAAGCCAGAGATCGAAGCGGCTCTTCTAGACGTGATGAGACTGGAACCCCAAGTC 1080
Db |||||
Db 3201 TAATAAGCCAGAGATCGAAGCGGCTCTTCTAGACGTGATGAGACTGGAACCCCAAGTC 3260
QY 1081 CATGTTGTGCTGCCGCTCTGCAAGAGTGAGTGTGCAAGAACTGCCAAGATCAAGGC 1140
Db |||||
Db 3261 CATGTTGTGCTGCCGCTCTGCAAGAGTGAGTGTGCAAGAACTGCCAAGATCAAGGC 3320
QY 1141 CAATGTAAACATCTGCAAAAGAGTGTCCAATCATTTGATTCAGGTACAGAGCTCTAAAGCA 1200
Db |||||
Db 3321 CAATGTAAACATCTGCAAAAGAGTGTCCAATCATTTGATTCAGGTACAGAGCTCTAAAGCA 3380
QY 1201 CTTTAATTATGACATCTGCCAAAGCTGCTTTTCTGTGCGAGTTGCAAAAGGCCATTA 1260
Db |||||
Db 3381 CTTTAATTATGACATCTGCCAAAGCTGCTTTTCTGTGCGAGTTGCAAAAGGCCATTA 3440
QY 1261 AATGCACTATCCCATGTGTGAATATTTGCACTCCGACTACATCAGGAGAAAGATGTTGAGA 1320
Db |||||
Db 3441 AATGCACTATCCCATGTGTGAATATTTGCACTCCGACTACATCAGGAGAAAGATGTTGAGA 3500
QY 1321 CTTTGCCAAGGTACTAAAAACAATTTGCAACCAAAAGTATTTGGCAAGCATCCCCG 1380
Db |||||
Db 3501 CTTTGCCAAGGTACTAAAAACAATTTGCAACCAAAAGTATTTGGCAAGCATCCCCG 3560
QY 1381 AATGGGCTACCTGCCAGTGCAGACTGTCTTGAAGGGGACAACATGGAAGTCCCGACAC 1440
Db |||||
Db 3561 AATGGGCTACCTGCCAGTGCAGACTGTCTTGAAGGGGACAACATGGAAGTCCCGCTTAC 3620

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Page 15

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Db	3621	TCTG	3624

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OM nucleic - nucleic search, using sw model

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Post-processing: Minimum Match 0%
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Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB	ID	Description
1	1501	100.0	3510	10	US-09-845-416-12	Sequence 12, Appl
2	1501	100.0	3531	10	US-09-845-416-10	Sequence 10, Appl
3	1501	100.0	3858	10	US-09-845-416-9	Sequence 9, Appl
4	1501	100.0	3999	10	US-09-845-416-6	Sequence 6, Appl
5	1501	100.0	4182	10	US-09-845-416-2	Sequence 2, Appl
6	1501	100.0	4476	10	US-09-845-416-31	Sequence 31, Appl
7	1501	100.0	4498	10	US-09-845-416-30	Sequence 30, Appl
8	1501	100.0	4825	10	US-09-845-416-29	Sequence 29, Appl
9	1501	100.0	4848	10	US-09-845-416-35	Sequence 35, Appl
10	1501	100.0	4966	10	US-09-845-416-28	Sequence 28, Appl
11	1501	100.0	4990	10	US-09-845-416-34	Sequence 34, Appl

12	1501	100.0	5060	10	US-09-845-416-36	Sequence 36, Appl
13	1501	100.0	5149	10	US-09-845-416-27	Sequence 27, Appl
14	1500	99.9	8689	17	US-10-149-736-42	Sequence 42, Appl
15	1500	99.9	11058	10	US-09-845-416-1	Sequence 1, Appl
16	1500	99.9	11443	17	US-10-149-736-44	Sequence 44, Appl
17	1500	99.9	13957	9	US-09-782-378A-22	Sequence 22, Appl
18	1500	99.9	13957	9	US-09-880-107-2284	Sequence 2284, Ap
19	1500	99.9	13957	17	US-10-149-736-1	Sequence 1, Appl
20	1500	99.9	14069	17	US-10-172-118-434	Sequence 434, App
21	1500	99.9	14069	17	US-10-342-887-434	Sequence 434, App
22	1500	99.9	14082	17	US-10-341-434-108	Sequence 108, App
23	1500	99.9	14082	17	US-10-172-118-981	Sequence 981, App
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25	1498	99.8	1821	10	US-09-845-416-13	Sequence 13, Appl
26	1498	99.8	2169	10	US-09-845-416-4	Sequence 4, Appl
27	1496.8	99.7	5339	17	US-10-149-736-40	Sequence 40, Appl
28	1496.8	99.7	5462	17	US-10-149-736-41	Sequence 41, Appl
29	1496.8	99.7	12057	17	US-10-149-736-47	Sequence 47, Appl
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32	1434	95.5	1434	10	US-09-845-416-15	Sequence 15, Appl
33	1433.4	95.5	5417	17	US-10-149-736-39	Sequence 39, Appl
34	1309.6	87.2	13815	17	US-10-149-736-2	Sequence 2, Appl
35	887	59.1	887	17	US-10-149-736-35	Sequence 35, Appl
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37	785.2	52.3	11096	17	US-10-149-736-4	Sequence 4, Appl
38	755.6	50.3	10302	9	US-09-782-378A-23	Sequence 23, Appl
39	755.6	50.3	10302	17	US-10-149-736-3	Sequence 3, Appl
40	746.8	49.8	16531	15	US-10-101-510-667	Sequence 667, App
41	662.8	44.2	5106	17	US-10-220-120-157	Sequence 157, App
42	324	21.6	324	17	US-10-149-736-33	Sequence 33, Appl
43	216	14.4	216	17	US-10-149-736-34	Sequence 34, Appl
44	114	7.6	114	17	US-10-149-736-45	Sequence 45, Appl
45	88	5.9	2247	9	US-09-960-253-157	Sequence 157, App

ALIGNMENTS

RESULT 1
US-09-845-416-12
; Sequence 12, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; FILE REFERENCE: DE1142
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 12
; LENGTH: 3510
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-12

Query Match	100.0%;	Score 1501;	DB 10;	Length 3510;
Best Local Similarity	100.0%;	Pred. No. 0;		
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QY 1501 A 1501
Db 3500 A 3500

RESULT 2
US-09-845-416-10
; Sequence 10, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845,416
; PRIOR FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 10
; LENGTH: 3531
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-10

Query Match 100.0%; Score 1501; DB 10; Length 3531;
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Matches 1501; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Db 3521 A 3521

RESULT 3
US-09-845-416-9
; Sequence 9, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845,416
; PRIOR FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: Patent In Ver. 2.1
; SEQ ID NO 9
; LENGTH: 3858
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-9

Query Match 100.0%; Score 1501; DB 10; Length 3858;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1501; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 241 AGAAGTGAAGCCACGTCAATGACCTTGCTGCCAGCTTACCATTTGGGCATTCAAGTCT 300
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QY 301 CACCGTAACTCTCAGCACTCTGGAAGACTGGAACACCAAGATGAAGCTTCTGCAAGTGG 360
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QY 361 CCGTGAAGACCGAGTCAAGCAGCTGCATGAAGCCCAAGGACTTTGGTCCAGCATCTC 420
Db 2708 CCGTGAAGACCGAGTCAAGCAGCTGCATGAAGCCCAAGGACTTTGGTCCAGCATCTC 2767
QY 421 AGCACTTTCTTCCACGCTGTGTCCAAGGTCCTGGAGAGAGCCATCTGCCAACAAG 480
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QY 481 TGCCTACTATATCAACCAAGAGACTCAACAACCTTGCTGGGACCATCCCAAAATGACAG 540
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QY 541 AGCTCTACCAAGTCTTTAGCTGACCTGAATAATGTCAGATTCTCAGCTTATAGGACTGCCA 600
Db 2888 AGCTCTACCAAGTCTTTAGCTGACCTGAATAATGTCAGATTCTCAGCTTATAGGACTGCCA 2947
QY 601 TGAACCTCCGAAGACTGCAGAAAGCCCTTGTGATCTCTTGAGCCTGTCACTGCAT 660

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Db 2948 TGAAGCTCCGAGAGCTGAGAGAGGCCCTTGTGCTGATCTTGAGCCTGTGAGCTGCAT 3007
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QY 841 GAACAGGAGGATCCGTGTCTGTCTTTTAAACTGCGATCATTTCCCTGTGTAAGCAC 900
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Db 3848 A 3848

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RESULT 4
US-09-845-416-6
; Sequence 6, Application US/09845416
; Publication No. US2003017312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: DE1142

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; CURRENT APPLICATION NUMBER: US/09/845,416
; PRIOR FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: Patent In Ver. 2.1
; SEQ ID NO: 6
; LENGTH: 3999
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-09-845-416-6

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Query Match 100.0%; Score 1501; DB 10; Length 3999;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1501; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 1 AGTCAATACTGAGTGGGAAAAATTGAACCTGCACTCCGCTGACTGGCAGAGAAAAATAG 60
Db 2489 AGGTCAATACTGAGTGGGAAAAATTGAACCTGCACTCCGCTGACTGGCAGAGAAAAATAG 2548
QY 61 ATGAGACCCCTTGAAGAATCTCAAGAACTTCAAGAGCCACGATGAGCTGCACTCAAGC 120
Db 2549 ATGAGACCCCTTGAAGAATCTCAAGAACTTCAAGAGCCACGATGAGCTGCACTCAAGC 2608
QY 121 TGGCCCAAGCTGAGGTGATCAAGGATCTGCGAGCCGCTGGGCGATCTCTCATTTGACT 180
Db 2609 TGGCCCAAGCTGAGGTGATCAAGGATCTGCGAGCCGCTGGGCGATCTCTCATTTGACT 2668
QY 181 CTCTCAAGATCACTCGAGAAAGTCAAGGCACTTCGAGAGAAATTGGCCCTGAAAG 240
Db 2669 CTCTCAAGATCACTCGAGAAAGTCAAGGCACTTCGAGAGAAATTGGCCCTGAAAG 2728
QY 241 AGAAGTGAAGCCAGCTCAATGACCTTGTGCGCAGCTTACCACTTTGGGCATTGAGCTCT 300
Db 2729 AGAAGTGAAGCCAGCTCAATGACCTTGTGCGCAGCTTACCACTTTGGGCATTGAGCTCT 2788
QY 301 CACCGTATAACTCAGCACTCTGGAAGACCTGAACACCAAGATGAAGCTTCTGCAAGTGG 360
Db 2789 CACCGTATAACTCAGCACTCTGGAAGACCTGAACACCAAGATGAAGCTTCTGCAAGTGG 2848
QY 361 CCGTGAAGACCGAGTCAAGCAGCTGATGAAGCCCAAGGACTTTGGTCCAGCATCTC 420
Db 2849 CCGTGAAGACCGAGTCAAGCAGCTGATGAAGCCCAAGGACTTTGGTCCAGCATCTC 2908
QY 421 AGCACTTTCTTCCACGCTGTGTCCAGGGTCCCTGGAGAGAGCCATCTCGCCAAACAAG 480
Db 2909 AGCACTTTCTTCCACGCTGTGTCCAGGGTCCCTGGAGAGAGCCATCTCGCCAAACAAG 2968
QY 481 TGCCTACTATATCAACCAAGAGACTCAAAACAATTGCTGGGACCATCCCAAAATGACAG 540
Db 2969 TGCCTACTATATCAACCAAGAGACTCAAAACAATTGCTGGGACCATCCCAAAATGACAG 3028
QY 541 AGCTCTACAGTCTTTAGCTGACCTGAATATGTCAAGTTCTCAGCTTAATGAGACTGCCA 600
Db 3029 AGCTCTACAGTCTTTAGCTGACCTGAATATGTCAAGTTCTCAGCTTAATGAGACTGCCA 3088
QY 601 TGAAGCTCCGAAGACTGCAAGAGGCCCTTTGCTTGGATCTCTTGAAGCTGTGAGCTGCAT 660
Db 3089 TGAAGCTCCGAAGACTGCAAGAGGCCCTTTGCTTGGATCTCTTGAAGCTGTGAGCTGCAT 3148
QY 661 GTGATGCCCTTGACCAAGACCAACCTCAAGCAAAATGACCAAGCCCATGATATCTGCAGA 720
Db 3149 GTGATGCCCTTGACCAAGACCAACCTCAAGCAAAATGACCAAGCCCATGATATCTGCAGA 3208
QY 721 TTATTAATGTTTGAACCACTATTATGACCCGCTGAGCAAGAGCAACAATTGTGTCA 780
Db 3209 TTATTAATGTTTGAACCACTATTATGACCCGCTGAGCAAGAGCAACAATTGTGTCA 3268
QY 781 ACGTCCCTCTGCGTGATATATGTGTGAACTGGCTGTGAATGTTATGATACGGGAC 840
Db 3269 ACGTCCCTCTGCGTGATATATGTGTGAACTGGCTGTGAATGTTATGATACGGGAC 3328
QY 841 GAACAGGAGGATCCGTGTCTGTCTTTTAAACTGGAATCATTTCCCTGTGTAAGCAC 900

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Db 3329 GAACAGGAGGATCCGTGCTCTGCTTTTAAACTGGCATCTTCCCTGTGTAAGCAC 3388
Qy 901 ATTTGGAAGACAAGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCAACAGATTGTG 960
Db 3389 ATTTGGAAGACAAGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCAACAGATTGTG 3448
Qy 961 ACCAGCGAGGCTGGGCTCTTCTGATGATTTCTATCCAAATTCAGAAGAGTGGGTG 1020
Db 3449 ACCAGCGAGGCTGGGCTCTTCTGATGATTTCTATCCAAATTCAGAAGAGTGGGTG 3508
Qy 1021 AAGTTGCACTCTTTGGGGGAGTAACATTGAGCCAAAGTGTCCGAGCTGCTTCCAATTTG 1080
Db 3509 AAGTTGCACTCTTTGGGGGAGTAACATTGAGCCAAAGTGTCCGAGCTGCTTCCAATTTG 3568
Qy 1081 CTAATAATAAGCCAGAGATCGAAGCGGCCCTTCTCTAGACTGGATGAGACTGGAACCC 1140
Db 3569 CTAATAATAAGCCAGAGATCGAAGCGGCCCTTCTCTAGACTGGATGAGACTGGAACCC 3628
Qy 1141 AGTCCATGCTGTGCTGCTGCCCTCTGACAGAGTGGCTGCTGACAGAACTGCCAAGCATC 1200
Db 3629 AGTCCATGCTGTGCTGCTGCCCTCTGACAGAGTGGCTGCTGACAGAACTGCCAAGCATC 3688
Qy 1201 AGGCCAAATGTAACATCTGCAAAAGTGTCCAATCATTTGATTCAAGTACAGAGTCTAA 1260
Db 3689 AGGCCAAATGTAACATCTGCAAAAGTGTCCAATCATTTGATTCAAGTACAGAGTCTAA 3748
Qy 1261 AGCACTTAATTATGACATCTGCCAAAGCTTTTTTTCTGTCGAGTTGCAAAAAGGCC 1320
Db 3749 AGCACTTAATTATGACATCTGCCAAAGCTTTTTTTCTGTCGAGTTGCAAAAAGGCC 3808
Qy 1321 ATAAATGCACTATCCCATGCTGGAATATTGCACTCCGACTACATCAGAGAAGATGTTT 1380
Db 3809 ATAAATGCACTATCCCATGCTGGAATATTGCACTCCGACTACATCAGAGAAGATGTTT 3868
Qy 1381 GAGACTTTGCCAAGGTACTTAAAAACAATTTCGAACCAAAAGGTATTTTCCGAAGCATC 1440
Db 3869 GAGACTTTGCCAAGGTACTTAAAAACAATTTCGAACCAAAAGGTATTTTCCGAAGCATC 3928
Qy 1441 CCCGAATGGGCTACCTGCCAGTGCAGACTGTCTTAGAGGGGGACAAATGGAAACTCCCG 1500
Db 3929 CCCGAATGGGCTACCTGCCAGTGCAGACTGTCTTAGAGGGGGACAAATGGAAACTCCCG 3988
Qy 1501 A 1501
Db 3989 A 3989

RESULT 5
US-09-845-416-2
; Sequence 2, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845,416
; PRIOR FILING DATE: 2001-04-30
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 4182
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-2

Query Match 100.0%; Score 1501; DB 10; Length 4182;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1501; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AGTCAATACTGAGTGGAAAAATTGAACCTGCACCTCCGCTGACTGGCAGAGAAAAATAG 60
Db 2672 AGTCAATACTGAGTGGAAAAATTGAACCTGCACCTCCGCTGACTGGCAGAGAAAAATAG 2731
Qy 61 ATGAGACCTTGAAGAAGCTCCAGGAATCTCAAGAGGCCACGATGAGCTGAACTCAAGC 120
Db 2732 ATGAGACCTTGAAGAAGCTCCAGGAATCTCAAGAGGCCACGATGAGCTGAACTCAAGC 2791
Qy 121 TGGCCAAAGCTGAGTGTATCAAGGATCTTGGCAGCCCGTGGCGATCTCCTATTGACT 180
Db 2792 TGGCCAAAGCTGAGTGTATCAAGGATCTTGGCAGCCCGTGGCGATCTCCTATTGACT 2851
Qy 181 CTCTCCAAGATCACTTCGAGAAAGTCAAGGCACTTCGAGGAGAAATTGCGCTTGAAG 240
Db 2852 CTCTCCAAGATCACTTCGAGAAAGTCAAGGCACTTCGAGGAGAAATTGCGCTTGAAG 2911
Qy 241 AGAAGCTGAGCCAGTCAATGACCTTGCTGCGCAGCTTACCACTTTGGGCATTCAGCTCT 300
Db 2912 AGAAGCTGAGCCAGTCAATGACCTTGCTGCGCAGCTTACCACTTTGGGCATTCAGCTCT 3091
Qy 301 CACCGTATACTTCAGCACTCTGGAAGACCTGAACACACAGATGGAAGCTTCTGACAGTGG 360
Db 2972 CACCGTATACTTCAGCACTCTGGAAGACCTGAACACACAGATGGAAGCTTCTGACAGTGG 3031
Qy 361 CCGTGAAGACCGAGTCAAGCAGCTGATGAAGCCACAGGACCTTGTCCAGCATCTC 420
Db 3032 CCGTGAAGACCGAGTCAAGCAGCTGATGAAGCCACAGGACCTTGTCCAGCATCTC 3091
Qy 421 AGCACTTTCTTTCCACGCTGTGTCCAGGCTCCCTGGAGAGAGCCATCTCGCCAAACAAG 480
Db 3092 AGCACTTTCTTTCCACGCTGTGTCCAGGCTCCCTGGAGAGAGCCATCTCGCCAAACAAG 3151
Qy 481 TGCCCTACTATATCAACACGAGACTCAACAACCTTGCTGGACCATCCCAAAATGACAG 540
Db 3152 TGCCCTACTATATCAACACGAGACTCAACAACCTTGCTGGACCATCCCAAAATGACAG 3211
Qy 541 AGCTCTACAGTCTTTAGCTGACCTGAATATGTAGATTCTCAGCTTATAGGACTGCCA 600
Db 3212 AGCTCTACAGTCTTTAGCTGACCTGAATATGTAGATTCTCAGCTTATAGGACTGCCA 3271
Qy 601 TGAACCTCGAAGACTGCAGAAAGCCCTTGCTTGATCTCTTGAGCTGTACAGTGCAT 660
Db 3272 TGAACCTCGAAGACTGCAGAAAGCCCTTGCTTGATCTCTTGAGCTGTACAGTGCAT 3331
Qy 661 GTGATGCTTGGACCAAGCAACCTCAACCAAAATGACCAAGCCCATGGATATCTGCAGA 720
Db 3332 GTGATGCTTGGACCAAGCAACCTCAACCAAAATGACCAAGCCCATGGATATCTGCAGA 3391
Qy 721 TTATTAAATTGTTTGACCACTATTATGACCGCCCTGGAGCAAGAGCAACAATTGGTCA 780
Db 3392 TTATTAAATTGTTTGACCACTATTATGACCGCCCTGGAGCAAGAGCAACAATTGGTCA 3451
Qy 781 ACGTCCCTCTGCGTGATATGTCGAACTGGCTGCTGAATGTTATGATACGGGAC 840
Db 3452 ACGTCCCTCTGCGTGATATGTCGAACTGGCTGCTGAATGTTATGATACGGGAC 3511
Qy 841 GAACAGGAGATCCGTGCTGCTTTTAAACTGCGATCATTTCCCTGTGTAAGCAC 900
Db 3512 GAACAGGAGATCCGTGCTGCTTTTAAACTGCGATCATTTCCCTGTGTAAGCAC 3571
Qy 901 ATTTGGAAGACAAGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCAACAGATTGTG 960
Db 3572 ATTTGGAAGACAAGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCAACAGATTGTG 3631
Qy 961 ACCAGCGAGGCTGGGCTCTTCTGATGATTTCTATCCAAATTCAGAAGAGTGGGTG 1020
Db 3632 ACCAGCGAGGCTGGGCTCTTCTGATGATTTCTATCCAAATTCAGAAGAGTGGGTG 3691
Qy 1021 AAGTTGCACTTTTGGGGGAGTAACATTGAGCCAAAGTGTCCGAGCTGCTTCCAATTTG 1080
Db 3692 AAGTTGCACTTTTGGGGGAGTAACATTGAGCCAAAGTGTCCGAGCTGCTTCCAATTTG 3751
Qy 1081 CTAATAATAAGCCAGAGATCGAAGCGGCCCTTCTCTAGACTGATGAGACTGGAACCC 1140

Db 3752 CTAATAATAAGCCAGAGATCGAAGCGCCCTTCTTCTAGACTGGATGAGACTGGAACCC 3811
QY 1141 AGTCCATGGTGTGGCTGCCCCGTCTCTGCAACAAGTGGCTGTGCAAGAACTGCCAAGCATC 1200
Db 3812 AGTCCATGGTGTGGCTGCCCCGTCTCTGCAACAAGTGGCTGTGCAAGAACTGCCAAGCATC 3871
QY 1201 AGGCCAAATGTACATCTGCAAGAAGTGTCCCAATCATTGGATTGAGTACAGAGAGTCTAA 1260
Db 3872 AGGCCAAATGTACATCTGCAAGAAGTGTCCCAATCATTGGATTGAGTACAGAGAGTCTAA 3931
QY 1261 AGCACTTTAATTATGACATCTGCCAAAGCTGCTTTTCTGTGTCGAGTTGCAAAAGGCC 1320
Db 3932 AGCACTTTAATTATGACATCTGCCAAAGCTGCTTTTCTGTGTCGAGTTGCAAAAGGCC 3991
QY 1321 ATAAATGCACTATCCCATGGTGAATATTGCACTCCGACTACATCAGAGAGAATGTTTC 1380
Db 3992 ATAAATGCACTATCCCATGGTGAATATTGCACTCCGACTACATCAGAGAGAATGTTTC 4051
QY 1381 GAGACTTTGCCAAGGTACTTAAAAACAATTTTGCACCAAAAGGTATTTTGCAGACATC 1440
Db 4052 GAGACTTTGCCAAGGTACTTAAAAACAATTTTGCACCAAAAGGTATTTTGCAGACATC 4111
QY 1441 CCCGAATGGGTACCTGCGCAGTGCAGACTGTCTTGAAGGGGACCAACATGGAACCTCCCG 1500
Db 4112 CCCGAATGGGTACCTGCGCAGTGCAGACTGTCTTGAAGGGGACCAACATGGAACCTCCCG 4171
QY 1501 A 1501
Db 4172 A 4172

RESULT 6
US-09-845-416-31
; Sequence 31, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845,416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 31
; LENGTH: 4476
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-31

Query Match 100.0%; Score 1501; DB 10; Length 4476;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1501; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AGGTCAATACTGAGTGGAAAAATTGAACCTGCACCTCGCTGACTGCGAGAGAAAAATAG 60
Db 2756 AGGTCAATACTGAGTGGAAAAATTGAACCTGCACCTCGCTGACTGCGAGAGAAAAATAG 2815
QY 61 ATGAGACCCTTGAAAGACTCCAGGAACCTTCAAGAGGCCACGGATGAGCTGGAACCTCAAGC 120
Db 2816 ATGAGACCCTTGAAAGACTCCAGGAACCTTCAAGAGGCCACGGATGAGCTGGAACCTCAAGC 2875
QY 121 TGGCCCAAGCTGAGGTGATCAAGGGATCCTGCGAGCCCCGTGGCGATCTCTCATTTGACT 180
Db 2876 TGGCCCAAGCTGAGGTGATCAAGGGATCCTGCGAGCCCCGTGGCGATCTCTCATTTGACT 2935
QY 181 CTCTCCAAGATCACCTCGAGAGAAAGTCAAGGCACCTTCAAGAGAGAAATTTGCGCTTGAAAAG 240
Db 2936 CTCTCCAAGATCACCTCGAGAGAAAGTCAAGGCACCTTCAAGAGAGAAATTTGCGCTTGAAAAG 2995

QY 241 AGAAGTGAGCCAGCTCAATGACCTTGTCTGCCAGCTTACCACTTTGGGCATTCAGCTCT 300
Db 2996 AGAAGTGAGCCAGCTCAATGACCTTGTCTGCCAGCTTACCACTTTGGGCATTCAGCTCT 3055
QY 301 CACCGTATTAACCTTCAGCACTCTGGAAGACTGAACACCAAGATGGAAGCTTCTGCAGGTGG 360
Db 3056 CACCGTATTAACCTTCAGCACTCTGGAAGACTGAACACCAAGATGGAAGCTTCTGCAGGTGG 3115
QY 361 CCGTGAAGACCGAGTCAAGGACGTGCATGAAGCCCCACAGGCACTTTGGTCCAGCATCTC 420
Db 3116 CCGTGAAGACCGAGTCAAGGACGTGCATGAAGCCCCACAGGCACTTTGGTCCAGCATCTC 3175
QY 421 AGCACTTTCTTCCACGCTGTGTCCAGGGTCCCTGGGAGAGACCATCTCGCCAAACAAAG 480
Db 3176 AGCACTTTCTTCCACGCTGTGTCCAGGGTCCCTGGGAGAGACCATCTCGCCAAACAAAG 3235
QY 481 TGCCCTACTATATCAACCAAGCACTCAAAACAATTGCTGGGACCATCCCAAAATGACAG 540
Db 3236 TGCCCTACTATATCAACCAAGCACTCAAAACAATTGCTGGGACCATCCCAAAATGACAG 3295
QY 541 AGCTTCAACAGCTTTAGCTGACCTGAATATGTCAATCTCAGCTTATAGACTGCCA 600
Db 3296 AGCTTCAACAGCTTTAGCTGACCTGAATATGTCAATCTCAGCTTATAGACTGCCA 3355
QY 601 TGAAACTCCGAAGACTGCAAGAGGCCCTTTGCTTGAATCTCTTGAGCCTGTGACCTGCAT 660
Db 3356 TGAAACTCCGAAGACTGCAAGAGGCCCTTTGCTTGAATCTCTTGAGCCTGTGACCTGCAT 3415
QY 661 GTGATGCTTGGACCAAGCAAACTCAAGCAAAATGAACAGCCCATGGAATCTCTGCAGA 720
Db 3416 GTGATGCTTGGACCAAGCAAACTCAAGCAAAATGAACAGCCCATGGAATCTCTGCAGA 3475
QY 721 TTATTAATGTTTGACCACTATTATGACCGCTGGAAGCAAGACACAATTTGGTCA 780
Db 3476 TTATTAATGTTTGACCACTATTATGACCGCTGGAAGCAAGACACAATTTGGTCA 3535
QY 781 AGTCCCTCTGTGCGTGATATGTGTGAACCTGGCTGTGAATGTTATGATACGGGAC 840
Db 3536 AGTCCCTCTGTGCGTGATATGTGTGAACCTGGCTGTGAATGTTATGATACGGGAC 3595
QY 841 GAAACAGGAGGATCCGTGTCTGTCTTTTAAAACTGGCATCATTTCCCTGTGTAAAGCAC 900
Db 3596 GAAACAGGAGGATCCGTGTCTGTCTTTTAAAACTGGCATCATTTCCCTGTGTAAAGCAC 3655
QY 901 ATTTGAAGACAAGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCAACAGATTGTTG 960
Db 3656 ATTTGAAGACAAGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCAACAGATTGTTG 3715
QY 961 ACCAGCGAGGCTGGGCTCCTCTTGTGATGATTCTATCCAAATTTCCAAAGACAGTTGGGTG 1020
Db 3716 ACCAGCGAGGCTGGGCTCCTCTTGTGATGATTCTATCCAAATTTCCAAAGACAGTTGGGTG 3775
QY 1021 AAGTTGATCTTTTGGGGGCAATTAATTGAAGCAAGTGTCCGGAAGCTGCTTCCAATTG 1080
Db 3776 AAGTTGATCTTTTGGGGGCAATTAATTGAAGCAAGTGTCCGGAAGCTGCTTCCAATTG 3835
QY 1081 CTAATAATAAGCCAGAGATCGAAGCGGCCCTTCTCTAGACTGGATGAGACTGGAACCCC 1140
Db 3836 CTAATAATAAGCCAGAGATCGAAGCGGCCCTTCTCTAGACTGGATGAGACTGGAACCCC 3895
QY 1141 AGTCCATGCTGTGGCTGCCCTCTCTGACAGAGTGGCTGCAAGAACTGCCAAGCATC 1200
Db 3896 AGTCCATGCTGTGGCTGCCCTCTCTGACAGAGTGGCTGCAAGAACTGCCAAGCATC 3955
QY 1201 AGGCCAAATGTACATCTGCAAAAGGTGCCAATCATTTGATTCAAGTACAGAGTCTAA 1260
Db 3956 AGGCCAAATGTACATCTGCAAAAGGTGCCAATCATTTGATTCAAGTACAGAGTCTAA 4015
QY 1261 AGCACTTTAATTATGACATCTGCCAAAGCTGCTTTTCTGTGCTGAGTTGCAAAAGGCC 1320
Db 4016 AGCACTTTAATTATGACATCTGCCAAAGCTGCTTTTCTGTGCTGAGTTGCAAAAGGCC 4075
QY 1321 ATAAATGCACTATCCCAATGCTGGAATATTGCACTCCGACTACATCAGAGAGAATGTTTC 1380

Db 4076 ATAAATGCACTATCCCATGTGGAATATGCACTCCGACTACATCAGAGAAGATGTTCC 4135
QY 1381 GAGACTTTGCCAAGGTACTATAAAAAACAATTTCGAACCAAAAGTAATTTTGGCAGCATC 1440
Db 4136 GAGACTTTGCCAAGGTACTATAAAAAACAATTTCGAACCAAAAGTAATTTTGGCAGCATC 4195
QY 1441 CCCGAATGGGCTAACCCTGCCAGTGCAGACTGTCTTAGAGGGGGGACACATGGAAACTCCCG 1500
Db 4196 CCCGAATGGGCTAACCCTGCCAGTGCAGACTGTCTTAGAGGGGGGACACATGGAAACTCCCG 4255
QY 1501 A 1501
Db 4256 A 4256

RESULT 7
US-09-845-416-30
; Sequence 30, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845,416
; PRIOR FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 30
; LENGTH: 4498
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-30

Query Match 100.0%; Score 1501; DB 10; Length 4498;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1501; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AGGTCAATACTAGTGGGAAAAATTGAACCTGCACCTCCGCTGACTGGCAGAGAAAAATAG 60
Db 2778 AGGTCAATACTAGTGGGAAAAATTGAACCTGCACCTCCGCTGACTGGCAGAGAAAAATAG 2837
QY 61 ATGAGACCCCTGAAAGACTCCAGGAACCTTCAAGAGGCCACGATGAGCTGGAACCTCAAGC 120
Db 2838 ATGAGACCCCTGAAAGACTCCAGGAACCTTCAAGAGGCCACGATGAGCTGGAACCTCAAGC 2897
QY 121 TGGCCCAAGCTGAGGTGATCAAGGATCCTGCGAGCCCGTGGCGATCTCTCATTTGACT 180
Db 2898 TGGCCCAAGCTGAGGTGATCAAGGATCCTGCGAGCCCGTGGCGATCTCTCATTTGACT 2957
QY 181 CTCTCCAAGATCACTTCGAGAAAGTCAAGGCACTTCGAGAGAAATTGCGCCTTGAAG 240
Db 2958 CTCTCCAAGATCACTTCGAGAAAGTCAAGGCACTTCGAGAGAAATTGCGCCTTGAAG 3017
QY 241 AGAAGCTGAGCCAGCTCAATGACCTTGTGCGCAGCTTACCACCTTTGGCATTCAGCTCT 300
Db 3018 AGAAGCTGAGCCAGCTCAATGACCTTGTGCGCAGCTTACCACCTTTGGCATTCAGCTCT 3077
QY 301 CACCGTATAAAGCTCAGCACTCTGGAAGACCTGAAACACAGATGAAAGCTTTGTGCAAGTGG 360
Db 3078 CACCGTATAAAGCTCAGCACTCTGGAAGACCTGAAACACAGATGAAAGCTTTGTGCAAGTGG 3137
QY 361 CCGTCGAGGACCGAGTCAAGGAGCTGCATGAAGCCACAGGGAATTTGTGCAAGTCTC 420
Db 3138 CCGTCGAGGACCGAGTCAAGGAGCTGCATGAAGCCACAGGGAATTTGTGCAAGTCTC 3197
QY 421 AGCACTTTCTTTCCACGCTGTGTCCAGGGTCCCTGGGAGAGAGCCATCTCGCCAAACAAG 480
Db 3198 AGCACTTTCTTTCCACGCTGTGTCCAGGGTCCCTGGGAGAGAGCCATCTCGCCAAACAAG 3257

QY 481 TGCCCTACTATATCAACCAAGAGACTCAAAACAACCTTGCTGGGACCATCCCAAATGACAG 540
Db 3258 TGCCCTACTATATCAACCAAGAGACTCAAAACAACCTTGCTGGGACCATCCCAAATGACAG 541
QY 541 AGCTTACAGTCTTTAGCTGACCTGAATAATGTCAAGATTCTCAGCTTATAGAGCTGCCA 600
Db 3318 AGCTTACAGTCTTTAGCTGACCTGAATAATGTCAAGATTCTCAGCTTATAGAGCTGCCA 601
QY 601 TGAACCTCCGAAGACTGCAGAAAGCCCTTGTGATCTCTGAGCCTGTGAGCTGCAT 660
Db 3378 TGAACCTCCGAAGACTGCAGAAAGCCCTTGTGATCTCTGAGCCTGTGAGCTGCAT 720
QY 661 GTGATGCTTGAACCAAGCAACCTCAAGAAAATGACCAAGCCATGATATCTGCAGA 720
Db 3438 GTGATGCTTGAACCAAGCAACCTCAAGAAAATGACCAAGCCATGATATCTGCAGA 721
QY 721 TTATTATTTGTTTGACCACTATTATGACCGCCCTGAGCAAGACACAACATTTGTCTCA 780
Db 3498 TTATTATTTGTTTGACCACTATTATGACCGCCCTGAGCAAGACACAACATTTGTCTCA 781
QY 781 ACGTCCCTCTCTGCGTGATATGTCTGAACTGGCTGCTGAATGTTATGATACGGGAC 840
Db 3558 ACGTCCCTCTCTGCGTGATATGTCTGAACTGGCTGCTGAATGTTATGATACGGGAC 841
QY 841 GAACAGGAGATCCGTCCTGTCCTTTTAAACTGGCATCATTTCCCTGTAAAGCAC 900
Db 3618 GAACAGGAGATCCGTCCTGTCCTTTTAAACTGGCATCATTTCCCTGTAAAGCAC 901
QY 901 ATTTGGAAGACAAGTACAGATACCTTTCAAGCAAGTGGCAAGTCAACAGGATTTGTG 960
Db 3678 ATTTGGAAGACAAGTACAGATACCTTTCAAGCAAGTGGCAAGTCAACAGGATTTGTG 961
QY 961 ACCAGCGAGCTGGGCTCCTCTGCAATGATTTCTATCCAAATTCGAAGACAGTTGGGTG 1020
Db 3738 ACCAGCGAGCTGGGCTCCTCTGCAATGATTTCTATCCAAATTCGAAGACAGTTGGGTG 1021
QY 1021 AAGTTGCATCTTTGGGGGAGTAACATTGAGCCCAAGTGTCCGAGCTGCTTCCAATTTG 1080
Db 3798 AAGTTGCATCTTTGGGGGAGTAACATTGAGCCCAAGTGTCCGAGCTGCTTCCAATTTG 1081
QY 1081 CTAATAATAAGCCAGAGATCGAAGCGCCCTCTTCTAGACTGATGAGACTGAAACCCC 1140
Db 3858 CTAATAATAAGCCAGAGATCGAAGCGCCCTCTTCTAGACTGATGAGACTGAAACCCC 1141
QY 1141 AGTCCATGTTGGTGGCTGCCCTGCTGCAAGAGTGGCTGCGAAGTCCCAAGCATC 1200
Db 3918 AGTCCATGTTGGTGGCTGCCCTGCTGCAAGAGTGGCTGCGAAGTCCCAAGCATC 1201
QY 1201 AGGCCAAATGTAAACATCTGCAAAAGTGTCCAATCATTTGATTCAGTACAGAGTCTAA 1260
Db 3978 AGGCCAAATGTAAACATCTGCAAAAGTGTCCAATCATTTGATTCAGTACAGAGTCTAA 1261
QY 1261 AGCACTTTAATTATGACATCTGCAAAAGCTGCTTTTCTGTGAGATTGCAAAAAGGCC 1320
Db 4038 AGCACTTTAATTATGACATCTGCAAAAGCTGCTTTTCTGTGAGATTGCAAAAAGGCC 1321
QY 1321 ATAAATGCACTATCCCATGTGGAATATGCACTCCGACTACATCAGAGAAAGATGTTG 1380
Db 4098 ATAAATGCACTATCCCATGTGGAATATGCACTCCGACTACATCAGAGAAAGATGTTG 1381
QY 1381 GAGACTTTGCCAAGGTACTATAAAAAACAATTTCGAACCAAAAGTAATTTTGGCAGCATC 1440
Db 4158 GAGACTTTGCCAAGGTACTATAAAAAACAATTTCGAACCAAAAGTAATTTTGGCAGCATC 1441
QY 1441 CCCGAATGGGCTAACCCTGCCAGTGCAGACTGTCTTAGAGGGGGGACACATGGAAACTCCCG 1500
Db 4218 CCCGAATGGGCTAACCCTGCCAGTGCAGACTGTCTTAGAGGGGGGACACATGGAAACTCCCG 1501
QY 1501 A 1501
Db 4278 A 4278


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RESULT 8
US-09-845-416-29
; Sequence 29, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; FILE REFERENCE: THEREOF
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845,416
; PRIOR FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 29
; LENGTH: 4825
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-29
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Query Match      100.0%; Score 1501; DB 10; Length 4825;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1501; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY      1 AGGTCAATCTGAGTGGGAAAAATTGAACTCGACCTCCGCTGACTGGCAGAGAAAAATAG 60
Db      3105 AGGTCAATCTGAGTGGGAAAAATTGAACTCGACCTCCGCTGACTGGCAGAGAAAAATAG 3164
QY      61 ATGAGACCCCTTGAAAAAGCTCCAGGAACTTCAAGAGGCCACGGATGAGCTGAACTCAAGC 120
Db      3165 ATGAGACCCCTTGAAAAAGCTCCAGGAACTTCAAGAGGCCACGGATGAGCTGAACTCAAGC 3224
QY      121 TGGCGCAAGCTGAGGTGATCAAGGATCCTGGCAGCCCGTGGGCGATCTCCTCATTTGACT 180
Db      3225 TGGCGCAAGCTGAGGTGATCAAGGATCCTGGCAGCCCGTGGGCGATCTCCTCATTTGACT 3284
QY      181 CTCTCCAAGATCACTTCGAGAAAAAGTCAAGGCACTTCGAGAGAAATTGGCCCTGTGAAAG 240
Db      3285 CTCTCCAAGATCACTTCGAGAAAAAGTCAAGGCACTTCGAGAGAAATTGGCCCTGTGAAAG 3344
QY      241 AGAAGTGAAGCCAGCTCAATGACCTTGTCTGCGCAGCTTACCACCTTGGGCATTCACTCT 300
Db      3345 AGAAGTGAAGCCAGCTCAATGACCTTGTCTGCGCAGCTTACCACCTTGGGCATTCACTCT 3404
QY      301 CACCGTATAACCTCAGCACTCTGAAAGACTTGAACACCAAGATGAACTTCTGCAGGTGG 360
Db      3405 CACCGTATAACCTCAGCACTCTGAAAGACTTGAACACCAAGATGAACTTCTGCAGGTGG 3464
QY      361 CCGTGAAGACCGAGTCAAGGAGCTGCAATGAAGCCCAAGGACTTTGGTCCAGCATCTC 420
Db      3465 CCGTGAAGACCGAGTCAAGGAGCTGCAATGAAGCCCAAGGACTTTGGTCCAGCATCTC 3524
QY      421 AGCACTTCTTTCACGCTGTCTCAGGGTCCCTGGGAGAGAGCCATCTCGCCAAACAAAG 480
Db      3525 AGCACTTCTTTCACGCTGTCTCAGGGTCCCTGGGAGAGAGCCATCTCGCCAAACAAAG 3584
QY      481 TGCCCTACTATATCAACCAAGAGACTCAAAACAATTGCTGGGACCATCCCAAAATGACAG 540
Db      3585 TGCCCTACTATATCAACCAAGAGACTCAAAACAATTGCTGGGACCATCCCAAAATGACAG 3644
QY      541 AGCTTACCAAGTCTTTAGCTGACCTGAATATGTCAGATTCTCAGCTTATAGACTGCCA 600
Db      3645 AGCTTACCAAGTCTTTAGCTGACCTGAATATGTCAGATTCTCAGCTTATAGACTGCCA 3704
QY      601 TGAACCTCCGAAGAGCTGCAGAAAGCCCTTGTGGATCTCTTGAGCCGTGCACTGCAT 660
Db      3705 TGAACCTCCGAAGAGCTGCAGAAAGCCCTTGTGGATCTCTTGAGCCGTGCACTGCAT 3764
QY      661 GTGATGCTTGGACCAACAACCTCAAGCAAAATGACAGGCCCATGATATCTGCAGA 720
Db      3765 GTGATGCTTGGACCAACAACCTCAAGCAAAATGACAGGCCCATGATATCTGCAGA 3824
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QY      721 TTATTAATTGTTGACCACTATTATGACCCGCTGGAGCAAGAGCAACAATTGTGTCA 780
Db      3825 TTATTAATTGTTGACCACTATTATGACCCGCTGGAGCAAGAGCAACAATTGTGTCA 3884
QY      781 ACGTCCCTCTCGCGTGATATATGTGTGAACTGGCTGCTGAATGTTATGATACGGGAC 840
Db      3885 ACGTCCCTCTCGCGTGATATATGTGTGAACTGGCTGCTGAATGTTATGATACGGGAC 3944
QY      841 GAACAGGAGAGATCCGTGTCTCTCTTTTAAACTGGCATCATTTCCCTGTGTAAGCAC 900
Db      3945 GAACAGGAGAGATCCGTGTCTCTCTTTTAAACTGGCATCATTTCCCTGTGTAAGCAC 4004
QY      901 ATTTGAAGACAAGTACAGATACCTTTTCAAGCAAGTGGCAAGTCAACAGAGATTGTG 960
Db      4005 ATTTGAAGACAAGTACAGATACCTTTTCAAGCAAGTGGCAAGTCAACAGAGATTGTG 4064
QY      961 ACCAGCGAGGCTGGGCTCTCTTCTGATGATTCTATCCAAATTCCAGACAGTTGGGTG 1020
Db      4065 ACCAGCGAGGCTGGGCTCTCTTCTGATGATTCTATCCAAATTCCAGACAGTTGGGTG 4124
QY      1021 AAGTTGATCTCTTGGGGGAGTAACATTGAGCCAAAGTGTCCGAGCTGCTTCCAATTG 1080
Db      4125 AAGTTGATCTCTTGGGGGAGTAACATTGAGCCAAAGTGTCCGAGCTGCTTCCAATTG 4184
QY      1081 CTATTAATTAAGCCAGAGATCGAAGCGCCCTCTTCTAGACTGATGATGACTGGAACCCC 1140
Db      4185 CTATTAATTAAGCCAGAGATCGAAGCGCCCTCTTCTAGACTGATGATGACTGGAACCCC 4244
QY      1141 AGTTCATGCTGTGCTGCGCCCTCTCTGACAGAGTGGCTGTCAGAAACTGCCAAGCATC 1200
Db      4245 AGTTCATGCTGTGCTGCGCCCTCTCTGACAGAGTGGCTGTCAGAAACTGCCAAGCATC 4304
QY      1201 AGGCCAAATGTAACATCTGCAAGAGTGTCCAATCATTGATTCAGGTAACAGAGTCTAA 1260
Db      4305 AGGCCAAATGTAACATCTGCAAGAGTGTCCAATCATTGATTCAGGTAACAGAGTCTAA 4364
QY      1261 AGCACTTAATTAAGACATCTGCCAAAGCTGCTTTTCTGTGAGTTGCAAAAGGCC 1320
Db      4365 AGCACTTAATTAAGACATCTGCCAAAGCTGCTTTTCTGTGAGTTGCAAAAGGCC 4424
QY      1321 ATAAATGACATATCCCATGATGTAATTTGCACTCCGACTACATCAGAGAGAGATGTC 1380
Db      4425 ATAAATGACATATCCCATGATGTAATTTGCACTCCGACTACATCAGAGAGAGATGTC 4484
QY      1381 GAGACTTTGCCAAGGTACTTAAAAACAATTTCGAACCAAAAGTATTTTGGCAAGCATC 1440
Db      4485 GAGACTTTGCCAAGGTACTTAAAAACAATTTCGAACCAAAAGTATTTTGGCAAGCATC 4544
QY      1441 CCCGAATGGGCTACCTGCGAGTGAAGACTGTCTTGAAGGGGACACACATGAAACTCCCG 1500
Db      4545 CCCGAATGGGCTACCTGCGAGTGAAGACTGTCTTGAAGGGGACACACATGAAACTCCCG 4604
QY      1501 A 1501
Db      4605 A 4605
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RESULT 9
US-09-845-416-35
; Sequence 35, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; FILE REFERENCE: THEREOF
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845,416
; PRIOR FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 35
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QY 121 TGGCCAAAGCTGAGGTGATCAAGGGATCCTGGCAGCCCGTGGCGATCTCTCATTTGACT 180
Db 3366 TGGCCCAAGCTGAGGTGATCAAGGGATCCTGGCAGCCCGTGGCGATCTCTCATTTGACT 3425
QY 181 CTCTCCAAGATCACCTCGAGAAAGTCAAGGCATCTTGAGAGAGAAATGGCGCTTGAAG 240
Db 3426 CTCTCCAAGATCACCTCGAGAAAGTCAAGGCATCTTGAGAGAGAAATGGCGCTTGAAG 3485
QY 241 AGAAGGTGAGCCACGTCATGACCTTGCTCGCAGCTTACCACCTTGGGCATTGAGTCT 300
Db 3486 AGAAGGTGAGCCACGTCATGACCTTGCTCGCAGCTTACCACCTTGGGCATTGAGTCT 3545
QY 301 CACCGTATACCTCAGACACTCTGGAAGACCTGAAACACAGATGGAAGCTTCTGCAGGTGG 360
Db 3546 CACCGTATACCTCAGACACTCTGGAAGACCTGAAACACAGATGGAAGCTTCTGCAGGTGG 3605
QY 361 CCGTGCAGGACCGGAGTCAAGGAGCTGCATGAAGCCACAGGGACTTTGGTCCAGCATCTC 420
Db 3606 CCGTGCAGGACCGGAGTCAAGGAGCTGCATGAAGCCACAGGGACTTTGGTCCAGCATCTC 3665
QY 421 AGCACTTTCTTTCACGCTGTGTCCAGGGTCCCTGGAGAGAGCCATCTCGCCAAACAAAG 480
Db 3666 AGCACTTTCTTTCACGCTGTGTCCAGGGTCCCTGGAGAGAGCCATCTCGCCAAACAAAG 3725
QY 481 TGCCCTACTATATCAACCAAGAGACTCAAAACAACCTTGCTGGGACCATCCCAAAATGACAG 540
Db 3726 TGCCCTACTATATCAACCAAGAGACTCAAAACAACCTTGCTGGGACCATCCCAAAATGACAG 3785
QY 541 AGCTCTACAGTCTTTAGCTGACCTGAATAATGTCAATTTCTCAGCTTATAGACTGCCA 600
Db 3786 AGCTCTACAGTCTTTAGCTGACCTGAATAATGTCAATTTCTCAGCTTATAGACTGCCA 3845
QY 601 TGAAGTCCGAAGACTGCAGAAAGCCCTTGTGATCTCTTGAGCCCTGCAGCTGCAT 660
Db 3846 TGAAGTCCGAAGACTGCAGAAAGCCCTTGTGATCTCTTGAGCCCTGCAGCTGCAT 3905
QY 661 GTGATGCCCTTGAGCCAGCAACCTCAAGCAAAATGACCAAGCCCATGATATCTGCAGA 720
Db 3906 GTGATGCCCTTGAGCCAGCAACCTCAAGCAAAATGACCAAGCCCATGATATCTGCAGA 3965
QY 721 TTATTAATTGTTGACCACTATTATGACCGCCTGGAGCAAGAGACACAATTTGGTCA 780
Db 3966 TTATTAATTGTTGACCACTATTATGACCGCCTGGAGCAAGAGACACAATTTGGTCA 4025
QY 781 ACGTCCCTCTGCGGTGATATGTGTGAAGTGGCTGTGAATGTTATGATACGGGAC 840
Db 4026 ACGTCCCTCTGCGGTGATATGTGTGAAGTGGCTGTGAATGTTATGATACGGGAC 4085
QY 841 GAACAGGGAGGATCCGTGTCTTTTAAAACTGGCATCATTTCCCTGTGTAAAGCAC 900
Db 4086 GAACAGGGAGGATCCGTGTCTTTTAAAACTGGCATCATTTCCCTGTGTAAAGCAC 4145
QY 901 ATTTGAAGACAAGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCAACAGAGATTTGTG 960
Db 4146 ATTTGAAGACAAGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCAACAGAGATTTGTG 4205
QY 961 ACCAGCGAGGCTGGGCTCTCTTCATGATTTCTATCCAAATTTCAAGACAGTTGGGTG 1020
Db 4206 ACCAGCGAGGCTGGGCTCTCTTCATGATTTCTATCCAAATTTCAAGACAGTTGGGTG 4265
QY 1021 AAGTTGCATCTTTGGGGGCACTAATTGAGCCCAAGTGTCCGAGCTGCTTCCAATTTG 1080
Db 4266 AAGTTGCATCTTTGGGGGCACTAATTGAGCCCAAGTGTCCGAGCTGCTTCCAATTTG 4325
QY 1081 CTAAATAATAAGCCAGAGATGGAAGCGGCCCTCTTCTAGACTGAGTGAAGTGAACCCC 1140
Db 4326 CTAAATAATAAGCCAGAGATGGAAGCGGCCCTCTTCTAGACTGAGTGAAGTGAACCCC 4385
QY 1141 AGTCCATGCTGTGGCTGCCCTCTGCAAGAGTGGCTGCTGCAGAAATGCCAAGCATC 1200
Db 4386 AGTCCATGCTGTGGCTGCCCTCTGCAAGAGTGGCTGCTGCAGAAATGCCAAGCATC 4445

QY 1201 AGGCCAATGTACATCTGCAAAAGAGTGTCCAATCATTTGATTGAGTACAGAGTCTAA 1260
Db 4446 AGGCCAATGTACATCTGCAAAAGAGTGTCCAATCATTTGATTGAGTACAGAGTCTAA 4505
QY 1261 AGCACTTTAATTATGACATCTGCAAAAGCTGCTTTTCTGGTGCAGTTGCAAAAGGCC 1320
Db 4506 AGCACTTTAATTATGACATCTGCAAAAGCTGCTTTTCTGGTGCAGTTGCAAAAGGCC 4565
QY 1321 ATAAATGCACATATCCCATGTTGGAATATGCACTCCGACATCAGAGAGATGTTTC 1380
Db 4566 ATAAATGCACATATCCCATGTTGGAATATGCACTCCGACATCAGAGAGATGTTTC 4625
QY 1381 GAGACTTTGCCAAGGTACTTAAAAACAATTTGGAACCAAAAGGTATTTTGGCAGCATC 1440
Db 4626 GAGACTTTGCCAAGGTACTTAAAAACAATTTGGAACCAAAAGGTATTTTGGCAGCATC 4685
QY 1441 CCCGAATGGGCTACCTGCCAGTGCAGACTGTCTTAGAGGGGACACATGGAACCTCCCG 1500
Db 4686 CCCGAATGGGCTACCTGCCAGTGCAGACTGTCTTAGAGGGGACACATGGAACCTCCCG 4745
QY 1501 A 1501
Db 4746 A 4746

RESULT 11
US-09-845-416-34
; Sequence 34, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845,416
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 34
; LENGTH: 4990
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-34

Query Match 100.0%; Score 1501; DB 10; Length 4990;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1501; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 AGGTCAATACTGAGTGGGAAAAATTGAACCTGCACCTCGCTGACTGGCAGAAAAATAG 60
Db 3270 AGGTCAATACTGAGTGGGAAAAATTGAACCTGCACCTCGCTGACTGGCAGAAAAATAG 3329
QY 61 ATGAGACCCCTTGAAAGACTTCCAGGAACCTTCAAGAGGCCACGGATGAGCTGGAACCTCAAGC 120
Db 3330 ATGAGACCCCTTGAAAGACTTCCAGGAACCTTCAAGAGGCCACGGATGAGCTGGAACCTCAAGC 3389
QY 121 TGGGCCAAGCTGAGGTGATCAAGGGATCTGGGAGCCCGTGGGCGATCTCCTATTGACT 180
Db 3390 TGGGCCAAGCTGAGGTGATCAAGGGATCTGGGAGCCCGTGGGCGATCTCCTATTGACT 3449
QY 181 CTCTCCAAGATCACCTTGAAGAAAGTCAAGGCACTTGAGAGAAATGCGCCTTGAAG 240
Db 3450 CTCTCCAAGATCACCTTGAAGAAAGTCAAGGCACTTGAGAGAAATGCGCCTTGAAG 3509
QY 241 AGAAGGTGAGCCACGTCATGACCTTGCTGCGCAGCTTACCATTGGGCATTGAGTCT 300
Db 3510 AGAAGGTGAGCCACGTCATGACCTTGCTGCGCAGCTTACCATTGGGCATTGAGTCT 3569
QY 301 CACCGTATACCTCAGCACTCTGGAAGACCTGAAACACCAAGTGAAGCTTCTGCAGGTGG 360
Db 3570 CACCGTATACCTCAGCACTCTGGAAGACCTGAAACACCAAGTGAAGCTTCTGCAGGTGG 3629

QY 361 CCGTCGAGACCGAGTCAGGCAAGTCATGAAAGCCCAAGGACCTTGGTCCAGCATCTC 420
| | | | |
Db 3630 CCGTCGAGAGACCGAGTCAGGCAAGTCATGAAAGCCCAAGGACCTTGGTCCAGCATCTC 3689
QY 421 AGCACTTTCTTTCCACGCTGTGTCCAGGGTCCCTGGGAGAGAGCCCATCTGCCAAACAAAG 480
| | | | |
Db 3690 AGCACTTTCTTTCCACGCTGTGTCCAGGGTCCCTGGGAGAGAGCCCATCTGCCAAACAAAG 3749
QY 481 TGCCCTACTATATCAACACGAGACTCAACAACTTGCTGGGACCATCCCAAAATGACAG 540
| | | | |
Db 3750 TGCCCTACTATATCAACACGAGACTCAACAACTTGCTGGGACCATCCCAAAATGACAG 3809
QY 541 AGCTCTACAGTCTTTAGCTGACCTGAAATTAATGTACAGATTCTCAGCTTATAGACTGCCA 600
| | | | |
Db 3810 AGCTCTACAGTCTTTAGCTGACCTGAAATTAATGTACAGATTCTCAGCTTATAGACTGCCA 3869
QY 601 TGAACCTCCGAAGACTGCAGAAAGGCCCTTGCTTGATCTCTTGAGCTGTACGCTGCAT 660
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Db 3870 TGAACCTCCGAAGACTGCAGAAAGGCCCTTGCTTGATCTCTTGAGCTGTACGCTGCAT 3929
QY 661 GTGATGCTTTGGACCAAGCAACCTCAAGCAAAATGACCAAGCCCATGATATCTCTGCAGA 720
| | | | |
Db 3930 GTGATGCTTTGGACCAAGCAACCTCAAGCAAAATGACCAAGCCCATGATATCTCTGCAGA 3989
QY 721 TTATTAATGTTTGGACCACTATTATGACCGCCTGGAGCAAGAGCAACAAATTTGTCA 780
| | | | |
Db 3990 TTATTAATGTTTGGACCACTATTATGACCGCCTGGAGCAAGAGCAACAAATTTGTCA 4049
QY 781 ACGTCCCTCTCTGCGTGATATGTGTGAAGCTGGCTGCTGAATGTTATGATACGGGAC 840
| | | | |
Db 4050 ACGTCCCTCTCTGCGTGATATGTGTGAAGCTGGCTGCTGAATGTTATGATACGGGAC 4109
QY 841 GAAACAGGAGGATCCGTCTGTCTTTTAAAACTGGCATCATTTCCCTGTGTAAAGCAC 900
| | | | |
Db 4110 GAAACAGGAGGATCCGTCTGTCTTTTAAAACTGGCATCATTTCCCTGTGTAAAGCAC 4169
QY 901 ATTTGGAGACAAAGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCAACAGATTTGTG 960
| | | | |
Db 4170 ATTTGGAGACAAAGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCAACAGATTTGTG 4229
QY 961 ACCAGCGAGGCTGGGCTCTCTTGATGATTTCTATCCAAATTCAGACAGTTGGGTG 1020
| | | | |
Db 4230 ACCAGCGAGGCTGGGCTCTCTTGATGATTTCTATCCAAATTCAGACAGTTGGGTG 4289
QY 1021 AAGTTGCACTCTTTGGGGCAGTAACATTGAGCCAAAGTGTCCGAGCTGCTTCCAATTTG 1080
| | | | |
Db 4290 AAGTTGCACTCTTTGGGGCAGTAACATTGAGCCAAAGTGTCCGAGCTGCTTCCAATTTG 4349
QY 1081 CTAATAATAAGCCAGAGATCGAAGGGCCCTTCTCTAGACTGATGAGACTGGAACCC 1140
| | | | |
Db 4350 CTAATAATAAGCCAGAGATCGAAGGGCCCTTCTCTAGACTGATGAGACTGGAACCC 4409
QY 1141 AGTCCATGCTGTGGCTGCCCTCTGACAGAGTGGCTGCTGCAGAAACTGCCAAGCATC 1200
| | | | |
Db 4410 AGTCCATGCTGTGGCTGCCCTCTGACAGAGTGGCTGCTGCAGAAACTGCCAAGCATC 4469
QY 1201 AGGCCAAATGTAACATCTGCAAAAGAGTGTCCAATCATTTGATTCAGGTAACAGAGTCTAA 1260
| | | | |
Db 4470 AGGCCAAATGTAACATCTGCAAAAGAGTGTCCAATCATTTGATTCAGGTAACAGAGTCTAA 4529
QY 1261 AGCACTTTAATATGACATCTGCCAAAGCTCTTTTCTGTGCTGAGTTGCAAAAAGGCC 1320
| | | | |
Db 4530 AGCACTTTAATATGACATCTGCCAAAGCTCTTTTCTGTGCTGAGTTGCAAAAAGGCC 4589
QY 1321 ATAAATGCACTATCCCATGTGGAATATGCACTCCGACTACATCAGAGAAGATGTTT 1380
| | | | |
Db 4590 ATAAATGCACTATCCCATGTGGAATATGCACTCCGACTACATCAGAGAAGATGTTT 4649
QY 1381 GAGACTTTGCCAAGGTACTAAAAACAATTTGCAACCAAAAAGGTATTTGCGAAGCATC 1440
| | | | |
Db 4650 GAGACTTTGCCAAGGTACTAAAAACAATTTGCAACCAAAAAGGTATTTGCGAAGCATC 4709

QY 1441 CCCGAATGGGCTACCTGCCAGTGCAGACTGTCTTAGAGGGGACAAACATGGAACCTCCCG 1500
| | | | |
Db 4710 CCCGAATGGGCTACCTGCCAGTGCAGACTGTCTTAGAGGGGACAAACATGGAACCTCCCG 4769
QY 1501 A 1501
|
Db 4770 A 4770
RESULT 12
US-09-845-416-36
; Sequence 36, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845,416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 36
; LENGTH: 5060
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-36

Query Match 100.0%; Score 1501; DB 10; Length 5060;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1501; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AGTCAATACTGAGTGGAAAAATTGAACCTGCACCTCCGCTGACTGGCAGAGAAAAATAG 60
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Db 3340 AGTCAATACTGAGTGGAAAAATTGAACCTGCACCTCCGCTGACTGGCAGAGAAAAATAG 3399
QY 61 ATGAGACCTTGAAGACTCCAGAACTTCAAGAGGCCACGATGAGCTGACCTCAAGC 120
| | | | |
Db 3400 ATGAGACCTTGAAGACTCCAGAACTTCAAGAGGCCACGATGAGCTGACCTCAAGC 3459
QY 121 TGGCGCAAGCTGAGTGATCAAGGATCCTGGCAGCCCGTGGGCGATCTCCTATTGACT 180
| | | | |
Db 3460 TGGCGCAAGCTGAGTGATCAAGGATCCTGGCAGCCCGTGGGCGATCTCCTATTGACT 3519
QY 181 CTCTCCAAGATCACTCGAGAAAGTCAAGCACTTCGAGGAGAAATTGGCCTTGAAAG 240
| | | | |
Db 3520 CTCTCCAAGATCACTCGAGAAAGTCAAGCACTTCGAGGAGAAATTGGCCTTGAAAG 3579
QY 241 AGAACGTGAGCCACGTCAATGACCTTGCTGCCAGCTTACCATTTGGGCAATTCAGCTCT 300
| | | | |
Db 3580 AGAACGTGAGCCACGTCAATGACCTTGCTGCCAGCTTACCATTTGGGCAATTCAGCTCT 3639
QY 301 CACCGTAATACTCAGCACTCTGGAAGACTTGAACACCAAGATGAAGCTTCTGCAGGTGG 360
| | | | |
Db 3640 CACCGTAATACTCAGCACTCTGGAAGACTTGAACACCAAGATGAAGCTTCTGCAGGTGG 3699
QY 361 CCGTCGAGACCGAGTCAGGACGTGATGAAGCCCAAGGACTTTGGTCCAGCATCTC 420
| | | | |
Db 3700 CCGTCGAGACCGAGTCAGGACGTGATGAAGCCCAAGGACTTTGGTCCAGCATCTC 3759
QY 421 AGCACTTTCTTTCCACGCTGTGTCCAGGGTCCCTGGGAGAGAGCCATCTGCCAAACAAAG 480
| | | | |
Db 3760 AGCACTTTCTTTCCACGCTGTGTCCAGGGTCCCTGGGAGAGAGCCATCTGCCAAACAAAG 3819
QY 481 TGCCCTACTATATCAACCAAGAGACTCAAACTTGTGCTGGGACCATCCCAAAATGACAG 540
| | | | |
Db 3820 TGCCCTACTATATCAACCAAGAGACTCAAACTTGTGCTGGGACCATCCCAAAATGACAG 3879
QY 541 AGCTCTACAGTCTTTAGCTGACCTGAATATGTACAGATTCTCAGCTTATAGAGCTGCCA 600
| | | | |
Db 3880 AGCTCTACAGTCTTTAGCTGACCTGAATATGTACAGATTCTCAGCTTATAGAGCTGCCA 3939

QY	601	TGAAACTCCGAAGACTGCAGAAAGGCCCTTGGCTTGGATCTCTTGAGCCTGTCACTGCAT	660
Db	3940	TGAAACTCCGAAGACTGCAGAAAGGCCCTTGGCTTGGATCTCTTGAGCCTGTCACTGCAT	3999
QY	661	GTGATGCCCTTGGACCAGCACAACTTCAAGCAAAATGACCAGCCCATGGATATCTCTGCAGA	720
Db	4000	GTGATGCCCTTGGACCAGCACAACTTCAAGCAAAATGACCAGCCCATGGATATCTCTGCAGA	4059
QY	721	TTATTAATTTGTTTGACCACTATTTATGACCGCCTGGAAGCAAGACAACAATTTGGTCA	780
Db	4060	TTATTAATTTGTTTGACCACTATTTATGACCGCCTGGAAGCAAGACAACAATTTGGTCA	4119
QY	781	ACGTCCCTCTCTGCCGTGGATATGTGTGAACTGGCTGCTGAATGTTTATGATACGGGAC	840
Db	4120	ACGTCCCTCTCTGCCGTGGATATGTGTGAACTGGCTGCTGAATGTTTATGATACGGGAC	4179
QY	841	GAACAGGAGAGATCCGTGTCTCTGCTTTTAAAACTGGCATCATTTCCCTGTGTAAGCAC	900
Db	4180	GAACAGGAGAGATCCGTGTCTCTGCTTTTAAAACTGGCATCATTTCCCTGTGTAAGCAC	4239
QY	901	ATTGGAAGACAAGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCAACAGATTTGTG	960
Db	4240	ATTGGAAGACAAGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCAACAGATTTGTG	4299
QY	961	ACCAGCGAGCGCTGGGCGCTCCTTCTGCATGATTCTATCCAAATTCGAAGACAGTTGGGTG	1020
Db	4300	ACCAGCGAGCGCTGGGCGCTCCTTCTGCATGATTCTATCCAAATTCGAAGACAGTTGGGTG	4359
QY	1021	AAATTGCATCCTTTGGGGGCACTAACATTGAGCCAAAGTGTCCGAGCTGCTTCCAATTTG	1080
Db	4360	AAATTGCATCCTTTGGGGGCACTAACATTGAGCCAAAGTGTCCGAGCTGCTTCCAATTTG	4419
QY	1081	CTAATAATAAGCCAGAGATCGAAGCGGCCCTCTTCTTGAAGCTGATGAGACTGGAAACCC	1140
Db	4420	CTAATAATAAGCCAGAGATCGAAGCGGCCCTCTTCTTGAAGCTGATGAGACTGGAAACCC	4479
QY	1141	AGTTCATGCTGTGGCTGCGCCGCTCTGCACAGAGTGGCTGTCAGAAACTGCCAAGCATC	1200
Db	4480	AGTTCATGCTGTGGCTGCGCCGCTCTGCACAGAGTGGCTGTCAGAAACTGCCAAGCATC	4539
QY	1201	AGGCCAAATGTACATCTGCAAAAGAGTGTCCAATCATTTGATTCAAGTACAGAGTCTTA	1260
Db	4540	AGGCCAAATGTACATCTGCAAAAGAGTGTCCAATCATTTGATTCAAGTACAGAGTCTTA	4599
QY	1261	AGCACTTTAATTATGACATCTGCCAAAGCTGCTTTTTTCTGTGTGAGTTGCCAAAAGGCC	1320
Db	4600	AGCACTTTAATTATGACATCTGCCAAAGCTGCTTTTTTCTGTGTGAGTTGCCAAAAGGCC	4659
QY	1321	ATTAATATGCACTATCCCATGCTGGAATATTGCACTCCGACTACATCAGAGAAGATGTTTC	1380
Db	4660	ATTAATATGCACTATCCCATGCTGGAATATTGCACTCCGACTACATCAGAGAAGATGTTTC	4719
QY	1381	GAGACTTTGCCAAGTACTAAAAAACAAATTTGGAACCAAAAAGTATTTTTCGGAAGCATC	1440
Db	4720	GAGACTTTGCCAAGTACTAAAAAACAAATTTGGAACCAAAAAGTATTTTTCGGAAGCATC	4779
QY	1441	CCCGAATGGGCTAAGTCCAGTGCAGATGCTGCTTAGAGGGGACCAACATGGAACTCCCG	1500
Db	4780	CCCGAATGGGCTAAGTCCAGTGCAGATGCTGCTTAGAGGGGACCAACATGGAACTCCCG	4839
QY	1501	A 1501	
Db	4840	A 4840	

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; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845,416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 27
;
; LENGTH: 5149
;
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-27

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Query Match	100.0%;	Score 1501;	DB 10;	Length 5149;
Best Local Similarity	100.0%;	Pred. No. 0;		
Matches 1501; Conservative	0;	Mismatches	0;	Indels 0.

QY	1	AGGTCATATACTGAGTGGGAAAAATTTGAACCTTGCACTCCGCTGACTGGCAGAGAAAAATAG	60
Db	3429	AGGTCAATACTGAGTGGGAAAAATTTGAACCTTGCACTCCGCTGACTGGCAGAGAAAAATAG	3488
QY	61	ATGAGACCCCTTGAAAGACTCCAGAACTTCAAGAGGCCACGGAATGAGCTGGAACCTCAAGC	120
Db	3489	ATGAGACCCCTTGAAAGACTCCAGAACTTCAAGAGGCCACGGAATGAGCTGGAACCTCAAGC	3548
QY	121	TGCGCCAAGCTGAGGTGATCAAGGATCCTGGCAGCCCGTGGCGGATCTCCTCATTTGACT	180
Db	3549	TGCGCCAAGCTGAGGTGATCAAGGATCCTGGCAGCCCGTGGCGGATCTCCTCATTTGACT	3608
QY	181	CTCTCCAAGATCACCTCGAAGAAGTCAAGGCACCTTCGAGAGAAATTGGCCCTCTGAAAG	240
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QY	301	CACCGTATAACCTCAGCACTCTGGAAGACCTGAACACCAGATGGAAGCTTTGCGAGGTGG	360
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QY	361	CCGTGAGGAGCCGAGTCAAGGCAGCTGCATGAAGCCCAAGGGACTTTGGTCCAGCATCTC	420
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QY	781	ACGTCCTCTCTGCGTGATATGTCTGAACCTGGCTGCTGAATGTTATGATACGGGAC	840
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QY	841	GAACAGGAGGATCCGTGCTCTGTCTTTTAAACTGGCATCTTCCCTGTGTAAAGCAC	900
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QY	1141	AGTCCATGCTGTGGCTGCCCGTCTGACACAGAGTGGCTGTCAGAACTGCCAAGCATC	1200
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; Sequence 42, Application US/10149736
; Publication No. US20030216332A1
; GENERAL INFORMATION:
; APPLICANT: Chamberlain, Jeffrey S.
; APPLICANT: Harper, Scott Q.
; TITLE OF INVENTION: Mini-Dystrophin Nucleic Acids and Peptide Sequences
; FILE REFERENCE: UM-06968
; CURRENT APPLICATION NUMBER: US/10/149, 736
; CURRENT FILING DATE: 2002-06-17
; PRIOR APPLICATION NUMBER: PCT/US01/31126
; PRIOR FILING DATE: 2001-10-04
; PRIOR APPLICATION NUMBER: 60/238, 848
; PRIOR FILING DATE: 2000-10-06
; NUMBER OF SEQ ID NOS: 96
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 42
; LENGTH: 8689
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic

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US-10-149-736-42

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Best Local Similarity	100.0%	Pred. No. 0;		
Matches 1500; Conservative	0;	Mismatches	0;	Indels 0; Gaps 0;

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QY	61	ATGAGACCCCTTGAAAGACTCCAGGAACCTTCAAGAGCCACGGATGAGCTGGAACCTCAAGC	120
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QY	181	CTCTCCAAGATCACTCGAAGAAGTCAAGGCACTTCGAGGAGAAATTGGCCTTGAAAG	240
Db	3849	CTCTCCAAGATCACTCGAAGAAGTCAAGGCACTTCGAGGAGAAATTGGCCTTGAAAG	3908
QY	241	AGAACGTGAGCCACGTCAATGACCTTGCTCGCCAGCTTACCACCTTTGGGCAATTCAGCTCT	300
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QY	301	CACCGTATTAACCTCAGCACTCTGGAAGACCTGAAACACCAGATGGAAGCTTCTGCAAGTGG	360
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QY	841	GAACAGGAGAGATCCGCTGTCTCTTTTAAACTGGCATCATTTCCCTGTGTAAAGCAC	900
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Job time : 908.381 secs

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OM nucleic - nucleic search, using sw model

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Searched: 1202784 seqs, 818138359 residues

Total number of hits satisfying chosen parameters: 2405568

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Post-processing: Minimum Match 0%
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Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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1	1500	99.9	5952	4	US-09-687-875A-1 Sequence 1, Appli
2	1498.4	99.8	5627	4	US-09-949-016-2831 Sequence 2831, Ap
3	1498.4	99.8	5627	4	US-09-949-016-2832 Sequence 2832, Ap
4	1498.4	99.8	7109	4	US-09-949-016-2812 Sequence 2812, Ap
5	1498.4	99.8	7109	4	US-09-949-016-2813 Sequence 2813, Ap
6	1498.4	99.8	7109	4	US-09-949-016-2814 Sequence 2814, Ap
7	1498.4	99.8	7109	4	US-09-949-016-2815 Sequence 2815, Ap
8	1498.4	99.8	7109	4	US-09-949-016-2816 Sequence 2816, Ap
9	1498.4	99.8	7109	4	US-09-949-016-2817 Sequence 2817, Ap
10	1498.4	99.8	7109	4	US-09-949-016-2818 Sequence 2818, Ap
11	1498.4	99.8	7109	4	US-09-949-016-2819 Sequence 2819, Ap
12	1498.4	99.8	7109	4	US-09-949-016-2820 Sequence 2820, Ap
13	1498.4	99.8	7141	4	US-09-949-016-2822 Sequence 2822, Ap
14	1498.4	99.8	7141	4	US-09-949-016-2823 Sequence 2823, Ap
15	1498.4	99.8	7141	4	US-09-949-016-2824 Sequence 2824, Ap
16	1498.4	99.8	7141	4	US-09-949-016-2825 Sequence 2825, Ap
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18	1495.2	99.6	7070	4	US-09-949-016-2805 Sequence 2805, Ap
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20	1495.2	99.6	7070	4	US-09-949-016-2807 Sequence 2807, Ap
21	1495.2	99.6	7070	4	US-09-949-016-2808 Sequence 2808, Ap
22	1495.2	99.6	7070	4	US-09-949-016-2809 Sequence 2809, Ap
23	1495.2	99.6	7070	4	US-09-949-016-2810 Sequence 2810, Ap
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26	1309.6	87.2	19307	3	US-08-836-022A-10 Sequence 10, Appli
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28	1000.8	66.7	4556	4	US-09-949-016-2826 Sequence 2826, Ap
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ALIGNMENTS

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; Sequence 1, Application US/09687875A
; Patent No. 6544786
; GENERAL INFORMATION:
; APPLICANT: Xiao, Xiao
; APPLICANT: Liu, Paul
; TITLE OF INVENTION: METHOD AND VECTOR FOR PRODUCING AND TRANSFERRING TRANS-SPICED PEI
; FILE REFERENCE: 00792
; CURRENT APPLICATION NUMBER: US/09/687, 875A
; CURRENT FILING DATE: 2000-10-13
; PRIOR APPLICATION NUMBER: 60/158, 868
; PRIOR FILING DATE: 1999-10-15
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
; LENGTH: 5952
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (2897)..(2898)
; OTHER INFORMATION: S4 junction site
; NAME/KEY: misc feature
; LOCATION: (3198)..(3199)
; OTHER INFORMATION: S2 junction site
US-09-687-875A-1

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Best Local Similarity 100.0%; Pred. No. 0;
Matches 1500; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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US-09-949-016-2832
; Sequence 2832, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.

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; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2832
; LENGTH: 5627
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-2832

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Best Local Similarity	99.9%	Pred. No. 0;		
Matches 1499; Conservative	0;	Mismatches	1;	Indels 0; Gaps 0;

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OY		181	CTCTCCAAGAT	CACTCGAAGAAAGTCAAGGCACTTCGAGAGAAATTGCGCTCTGAAAG	240
Db		783	CTCTCCAAGAT	CACTCGAAGAAAGTCAAGGCACTTCGAGAGAAATTGCGCTCTGAAAG	842
OY		241	AGAACGTGAG	CCACCTTAATGACCTTGCTCGCCACGCTTACCACCTTTGGGCAATTCAGCTCT	300
Db		843	AGAACGTGAG	CCACCTTAATGACCTTGCTCGCCACGCTTACCACCTTTGGGCAATTCAGCTCT	902
OY		301	CACCGTATAAC	CTCAGACACTCTGGAAAGACCTGAAACACCAATGGAAGCTTCTGCAGGTGG	360
Db		903	CACCGTATAAC	CTCAGACACTCTGGAAAGACCTGAAACACCAATGGAAGCTTCTGCAGGTGG	962
OY		361	CCGTGAGGAC	CCGAGTCAGGACGCTGCATGAAGGCCACAGGGACTTTGGTCCAGCATCTC	420
Db		963	CCGTGAGGAC	CCGAGTCAGGACGCTGCATGAAGGCCACAGGGACTTTGGTCCAGCATCTC	1022
OY		421	AGCACTTCTTT	CCAAGTCTGTCCAGGGTCCCCTGGGAGAGAGCCATCTCGCCAAACAAG	480
Db		1023	AGCACTTCTTT	CCAAGTCTGTCCAGGGTCCCCTGGGAGAGAGCCATCTCGCCAAACAAG	1082
OY		481	TGCCCTACTAT	ATCAACCAAGAGACTCAAAACAATTGCTGGGAGCCATCCCAAATGACAG	540
Db		1083	TGCCCTACTAT	ATCAACCAAGAGACTCAAAACAATTGCTGGGAGCCATCCCAAATGACAG	1142
OY		541	AGCTCTACCA	GCTCTTAGCTGACCTGAATATGTCAATTTCTCAGCTTATAGACTGCCA	600
Db		1143	AGCTCTACCA	GCTCTTAGCTGACCTGAATATGTCAATTTCTCAGCTTATAGACTGCCA	1202
OY		601	TGAAACTCCGA	AGACTGCAAGAGGCCCTTGTCTTGGAATCTCTTGAGCCTGTCAAGCTGCAT	660
Db		1203	TGAAACTCCGA	AGACTGCAAGAGGCCCTTGTCTTGGAATCTCTTGAGCCTGTCAAGCTGCAT	1262
OY		661	GTGATGCCCT	TGAGCAGCACAAACTCAAGCAAAAATGACCAAGCCCCATGGATATCTTGACAG	720
Db		1263	GTGATGCCCT	TGAGCAGCACAACCTCAAGCAAAAATGACCAAGCCCCATGGATATCTTGACAG	1322
OY		721	TTATTAATTGT	TGACCACTATTATGACCGCCTGGAGCAAGACCAACAATTGGTCA	780

Db 1323 TTATTAAATGTTTGACCACTATTATGACCGCCTGGAGCAAGACACAATTTGGTCA 1382
QY 781 ACGTCCCTCTTCGCGTGATATGTGTGAATGCGCTGTGAATGTTATGATACGGGAC 840
Db 1383 ACGTCCCTCTTCGCGTGATATGTGTGAATGCGCTGTGAATGTTATGATACGGGAC 1442
QY 841 GAACAGGAGGATCCGTGTCCTGTCTTTTAAACTGGCATCATTTCCCTGTGTAAAGCAC 900
Db 1443 GAACAGGAGGATCCGTGTCCTGTCTTTTAAACTGGCATCATTTCCCTGTGTAAAGCAC 1502
QY 901 ATTTGGAAGACAAGTACAGATACCTTTTCAAGCAAGTGCGCAAGTTCAACAGATTGTTG 960
Db 1503 ATTTGGAAGACAAGTACAGATACCTTTTCAAGCAAGTGCGCAAGTTCAACAGATTGTTG 1562
QY 961 ACCAGCGCAGGCTGGGCTCTCTTCGTGATGATTTCTATCCAAATTCGAAGACAGTTGGTG 1020
Db 1563 ACCAGCGCAGGCTGGGCTCTCTTCGTGATGATTTCTATCCAAATTCGAAGACAGTTGGTG 1622
QY 1021 AAGTTGCATCCTTTGGGGGCAAGTAAATTTAGCCAAAGTGTCCGAGCTGCTTCCAAATTTG 1080
Db 1623 AAGTTGCATCCTTTGGGGGCAAGTAAATTTAGCCAAAGTGTCCGAGCTGCTTCCAAATTTG 1682
QY 1081 CTAAATAAAGCCAGAGATCGAAGCGGCCCTCTCTCTAGACTGAGTGAAGTGAACCCC 1140
Db 1683 CTAAATAAAGCCAGAGATCGAAGCGGCCCTCTCTCTAGACTGAGTGAAGTGAACCCC 1742
QY 1141 AGTCCATGCTGTGGCTGCCCTCTCTGACACAGAGTGGCTGTGAGAACTGCCAAGCATC 1200
Db 1743 AGTCCATGCTGTGGCTGCCCTCTCTGACACAGAGTGGCTGTGAGAACTGCCAAGCATC 1802
QY 1201 AGGCCAAATGTACATCTGCGAAAGAGTGTCCCAATCATTTGATTGAGTACAGAGTCTAA 1260
Db 1803 AGGCCAAATGTACATCTGCGAAAGAGTGTCCCAATCATTTGATTGAGTACAGAGTCTAA 1862
QY 1261 AGCACTTTAATATGACATCTGCCAAAGCTGTTTTTCTGTGTCGAGTTGCAAAAGGCC 1320
Db 1863 AGCACTTTAATATGACATCTGCCAAAGCTGTTTTTCTGTGTCGAGTTGCAAAAGGCC 1922
QY 1321 ATAAATGCACTATCCCATGTGTGAATATGCACTCCGACTACATCAGAGAAGATGTTT 1380
Db 1923 ATAAATGCACTATCCCATGTGTGAATATGCACTCCGACTACATCAGAGAAGATGTTT 1982
QY 1381 GAGACTTTGCCAAGGTACTAAAAACAATTTGAAACCAAAAGGTATTTTGGCAAGCATC 1440
Db 1983 GAGACTTTGCCAAGGTACTAAAAACAATTTGAAACCAAAAGGTATTTTGGCAAGCATC 2042
QY 1441 CCCGAATGGGCTAAGCTGCGCAGTGCAGACTGCTTTAGAGGGGGAACAATGAAACTCCCG 1500
Db 2043 CCCGAATGGGCTAAGCTGCGCAGTGCAGACTGCTTTAGAGGGGGAACAATGAAACTCCCG 2102

RESULT 4

US-09-949-016-2812
; Sequence 2812, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; PRIOR FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2812
; LENGTH: 7109
; TYPE: DNA

; ORGANISM: Human
US-09-949-016-2812
Query Match 99.8%; Score 1498.4; DB 4; Length 7109;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1499; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1 AGGTCAATAGTGAAGGAAAAATTTGAACCTGCACTCCGCTGACTGGCAGAGAAAAATAG 60
Db 2117 AGGTCAATAGTGAAGGAAAAATTTGAACCTGCACTCCGCTGACTGGCAGAGAAAAATAG 2176
QY 61 ATGAGACCCCTTGAAGAACTCCAGAACTTCAAGAGGCCACGATGAGCTGGAACCTCAAGC 120
Db 2177 ATGAGACCCCTTGAAGAACTCCGGAACCTTCAAGAGGCCACGATGAGCTGGAACCTCAAGC 2236
QY 121 TGGCCAAAGCTGAGTGATCAAGGATCCTGGCAGCCCGTGGCGATCTCCTCATTTGACT 180
Db 2237 TGGCCAAAGCTGAGTGATCAAGGATCCTGGCAGCCCGTGGCGATCTCCTCATTTGACT 2296
QY 181 CTCTCAAGATCACTCGAAGAACTCAAGGCACTTCGAGAGAAATTTGCCCTCTGAAG 240
Db 2297 CTCTCAAGATCACTCGAAGAACTCAAGGCACTTCGAGAGAAATTTGCCCTCTGAAG 2356
QY 241 AGAAGTGAGCCACGTCAATGACCTTGTCTGCCAGCTTACCACTTTGGGCATTCAGCTCT 300
Db 2357 AGAAGTGAGCCACGTCAATGACCTTGTCTGCCAGCTTACCACTTTGGGCATTCAGCTCT 2416
QY 301 CACCGTATAACCTCAGCACTCTGGAAGACCTGGAACCAAGATGGAAGCTTCTGCAAGTGG 360
Db 2417 CACCGTATAACCTCAGCACTCTGGAAGACCTGGAACCAAGATGGAAGCTTCTGCAAGTGG 2476
QY 361 CCGTGAAGAGCCGAGTCAAGCACTGATGAAGCCCAAGGACTTTGGTCCAGCATCTC 420
Db 2477 CCGTGAAGAGCCGAGTCAAGCACTGATGAAGCCCAAGGACTTTGGTCCAGCATCTC 2536
QY 421 AGCACTTTCTTCCACGCTGTGTCCAGGGTCCCTGGGAGAGAGCCATCTGCCAAACAAG 480
Db 2537 AGCACTTTCTTCCACGCTGTGTCCAGGGTCCCTGGGAGAGAGCCATCTGCCAAACAAG 2596
QY 481 TGCCCTACTATATCAACCAAGAGACTCAAACTTGTCTGGGACCAATCCCAAAATGACAG 540
Db 2597 TGCCCTACTATATCAACCAAGAGACTCAAACTTGTCTGGGACCAATCCCAAAATGACAG 2656
QY 541 AGCTTACCAGTCTTTAGCTGACCTGAAATATGTCAGATTCTCAGCTTATAGAGCTGCCA 600
Db 2657 AGCTTACCAGTCTTTAGCTGACCTGAAATATGTCAGATTCTCAGCTTATAGAGCTGCCA 2716
QY 601 TGAAGCTCCGAAGACTGCAAGAGGCCCTTGTGATCTCTTGAAGCCTGTCAAGTGCAT 660
Db 2717 TGAAGCTCCGAAGACTGCAAGAGGCCCTTGTGATCTCTTGAAGCCTGTCAAGTGCAT 2776
QY 661 GTGATGCTTGGACCAAGCAACCTCAAGCAAAATGACCAAGCCCATGATATCCTGCAGA 720
Db 2777 GTGATGCTTGGACCAAGCAACCTCAAGCAAAATGACCAAGCCCATGATATCCTGCAGA 2836
QY 721 TTATTAAATGTTTGACCACTATTATGACCGGCTGGAGCAAGACACACAATTTGGTCA 780
Db 2837 TTATTAAATGTTTGACCACTATTATGACCGGCTGGAGCAAGACACACAATTTGGTCA 2896
QY 781 ACGTCCCTCTTCGCGTGATATGTGTCTGAACTGGCTGTGAATGTTATGATACGGGAC 840
Db 2897 ACGTCCCTCTTCGCGTGATATGTGTCTGAACTGGCTGTGAATGTTATGATACGGGAC 2956
QY 841 GAACAGGAGGATCCGTGTCCTGCTCTTTTAAACTGGCATCATTTCCCTGTGTAAAGCAC 900
Db 2957 GAACAGGAGGATCCGTGTCCTGCTCTTTTAAACTGGCATCATTTCCCTGTGTAAAGCAC 3016
QY 901 ATTTGGAAGACAAGTACAGATACCTTTTCAAGCAAGTGCGCAAGTTCAACAGATTTTGTG 960
Db 3017 ATTTGGAAGACAAGTACAGATACCTTTTCAAGCAAGTGCGCAAGTTCAACAGATTTTGTG 3076
QY 961 ACCAGCGCAGGCTGGGCTCTTCTGATGATTTCTATCCAAATTCGAAGACAGTTGGGTG 1020

Db 3077 ACCAGCGCAGGCTGGGCTCTTCTGCATGATTCTATCCAAATTCCAAGACAGTTGGGTG 3136
QY 1021 AAGTTGCATCCTTTGGGGGACATTAATGAGCCAAAGTGTCCGAGCTGCTTCCAATTTG 1080
Db 3137 AAGTTGCATCCTTTGGGGGACATTAATGAGCCAAAGTGTCCGAGCTGCTTCCAATTTG 3196
QY 1081 CTAATAATAAGCCAGAGATCGAAGCGCCCTCTTCTAGACTGATGAGACTGGAACCCC 1140
Db 3197 CTAATAATAAGCCAGAGATCGAAGCGCCCTCTTCTAGACTGATGAGACTGGAACCCC 3256
QY 1141 AGTCCATGCTGTGGCTGCCCTCTGACAGAGTGGCTGTGCAAACTGCCAAGCATC 1200
Db 3257 AGTCCATGCTGTGGCTGCCCTCTGACAGAGTGGCTGTGCAAACTGCCAAGCATC 3316
QY 1201 AGGCCAATGTAACATCTGCAAAAGAGTGTCCAATCATTGATTGAGTACAGAGTCTAA 1260
Db 3317 AGGCCAATGTAACATCTGCAAAAGAGTGTCCAATCATTGATTGAGTACAGAGTCTAA 3376
QY 1261 AGCACTTTAATTATGACATCTGCCAAAGCTGCTTTTCTGTGAGTTGCAAAAGGCC 1320
Db 3377 AGCACTTTAATTATGACATCTGCCAAAGCTGCTTTTCTGTGAGTTGCAAAAGGCC 3436
QY 1321 ATAAATGCACTATCCCATGTGTGAATATTGCACTCCGACTACATCAGAGAGATGTTG 1380
Db 3437 ATAAATGCACTATCCCATGTGTGAATATTGCACTCCGACTACATCAGAGAGATGTTG 3496
QY 1381 GAGACTTTGCCAAGGTACTAAAAACAATTTCGAACCAAAAGTAATTTTGCGAAGCATC 1440
Db 3497 GAGACTTTGCCAAGGTACTAAAAACAATTTCGAACCAAAAGTAATTTTGCGAAGCATC 3556
QY 1441 CCCGAATGGGCTACCTGCGCAGTGCAGACTGTCTTAGAGGGGGGACAATGGAACCTCCCG 1500
Db 3557 CCCGAATGGGCTACCTGCGCAGTGCAGACTGTCTTAGAGGGGGGACAATGGAACCTCCCG 3616

RESULT 5
US-09-949-016-2813
; Sequence 2813, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CLO01307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2813
; LENGTH: 7109
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-2813

Query Match 99.8%; Score 1498.4; DB 4; Length 7109;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1499; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1 AGGTCAATACTAGTGGAAAAATTGAACCTGCACTCCGCTGACTGGCAGAGAAAAATAG 60
Db 2117 AGGTCAATACTAGTGGAAAAATTGAACCTGCACTCCGCTGACTGGCAGAGAAAAATAG 2176
QY 61 ATGAGACCTTGAAAGACTCCAGGAATTCAGAAGGCCACGATGAGTGAACCTCAAGC 120
Db 2177 ATGAGACCTTGAAAGACTCCGGAATTCAGAAGGCCACGATGAGTGAACCTCAAGC 2236
QY 121 TGGCGCAAGCTGAGGTGATCAAGGATCTCGGACGCCCGTGGGCAATCTCTCATTTGACT 180

Db 2237 TGGCGCAAGCTGAGGTGATCAAGGATCTCGGACGCCCGTGGGCAATCTCTCATTTGACT 2296
QY 181 CTCTCCAAGATCACCTCGAGAAAGTCAAGGCACCTTCGAGAGAAATTGGCCTCTGAAG 240
Db 2297 CTCTCCAAGATCACCTCGAGAAAGTCAAGGCACCTTCGAGAGAAATTGGCCTCTGAAG 2356
QY 241 AGAAGTGAGCCACGTCATGACTTGTCTGCCAGCTTACCATTTGGGCATTCACTCT 300
Db 2357 AGAAGTGAGCCACGTCATGACTTGTCTGCCAGCTTACCATTTGGGCATTCACTCT 2416
QY 301 CACCGTATACTCAGCACTCTGAGAGACCTGAACACCAAGATGAAGCTTCTGCAAGTGG 360
Db 2417 CACCGTATACTCAGCACTCTGAGAGACCTGAACACCAAGATGAAGCTTCTGCAAGTGG 2476
QY 361 CCGTGAAGACCGAGTCAAGCAGCTGATGAAGCCACAGGACTTTGGTCCAGCATCTC 420
Db 2477 CCGTGAAGACCGAGTCAAGCAGCTGATGAAGCCACAGGACTTTGGTCCAGCATCTC 2536
QY 421 AGCACTTTCTTCCACGCTGTGTCCAGGGTCCCTGGGAGAGAGCCATCTCGCCAAACAAG 480
Db 2537 AGCACTTTCTTCCACGCTGTGTCCAGGGTCCCTGGGAGAGAGCCATCTCGCCAAACAAG 2596
QY 481 TGCCCTATAATATCAACCAAGACTCAAAACAATTGCTGGAGCATCCCAAAATGACAG 540
Db 2597 TGCCCTATAATATCAACCAAGACTCAAAACAATTGCTGGAGCATCCCAAAATGACAG 2656
QY 541 AGCTTACCAAGCTTTAGCTGACCTGAATAATGTCAAGATCTCAGCTTATAGACTGCCA 600
Db 2657 AGCTTACCAAGCTTTAGCTGACCTGAATAATGTCAAGATCTCAGCTTATAGACTGCCA 2716
QY 601 TGAACCTCCGAAGACTGCAGAAAGCCCTTGTGATCTCTGAGCCTGTCAAGTGCAT 660
Db 2717 TGAACCTCCGAAGACTGCAGAAAGCCCTTGTGATCTCTGAGCCTGTCAAGTGCAT 2776
QY 661 GTGATGCTTGGACCAAGCAACCTCAAGCAAAATGACCAAGCCCATGATATCTGCAGA 720
Db 2777 GTGATGCTTGGACCAAGCAACCTCAAGCAAAATGACCAAGCCCATGATATCTGCAGA 2836
QY 721 TTATTAAATTGTTTGACCACTATTATGACCCGCTGGAGCAAGACACAATTTGGTCA 780
Db 2837 TTATTAAATTGTTTGACCACTATTATGACCCGCTGGAGCAAGACACAATTTGGTCA 2896
QY 781 ACGTCCCTCTGCGGTGATATGTCTGAACCTGGCTGTAATGTTATGATACGGGAC 840
Db 2897 ACGTCCCTCTGCGGTGATATGTCTGAACCTGGCTGTAATGTTATGATACGGGAC 2956
QY 841 GAACAGGAGGATCCGTCTGCTCTTTTAAACTGGCATCAATTCCTGTGTAAAGCAC 900
Db 2957 GAACAGGAGGATCCGTCTGCTCTTTTAAACTGGCATCAATTCCTGTGTAAAGCAC 3016
QY 901 ATTTGAGACACAAGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCAACAGGATTTGTG 960
Db 3017 ATTTGAGACACAAGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCAACAGGATTTGTG 3076
QY 961 ACCAGCGCAGGCTGGGCTCTCTGTGATGATTTCTATCCAAATTCGAAGACAGTTGGGTG 1020
Db 3077 ACCAGCGCAGGCTGGGCTCTCTGTGATGATTTCTATCCAAATTCGAAGACAGTTGGGTG 3136
QY 1021 AAGTTGCATCCTTTGGGGGACATTAATGAGCCAAAGTGTCCGAGCTGCTTCCAATTTG 1080
Db 3137 AAGTTGCATCCTTTGGGGGACATTAATGAGCCAAAGTGTCCGAGCTGCTTCCAATTTG 3196
QY 1081 CTAATAATAAGCCAGAGATCGAAGCGCCCTCTTCTAGACTGATGAGACTGGAACCCC 1140
Db 3197 CTAATAATAAGCCAGAGATCGAAGCGCCCTCTTCTAGACTGATGAGACTGGAACCCC 3256
QY 1141 AGTCCATGCTGTGGCTGCCCTCTGACAGAGTGGCTGTGCAAACTGCCAAGCATC 1200
Db 3257 AGTCCATGCTGTGGCTGCCCTCTGACAGAGTGGCTGTGCAAACTGCCAAGCATC 3316
QY 1201 AGGCCAATGTAACATCTGCAAAAGAGTGTCCAATCATTGATTGAGTACAGAGTCTAA 1260

Db 3317 AGGCCAAATGTACATCTGCCAAAGAGTGTCCAATCATTTGATTTCAGGTACAGAGTCTAA 3376
QY 1261 AGCACTTTAATTATGACATCTGCCAAAGAGTCTTTTTTTCTGTCTGAGTTGCCAAAGGCC 1320
Db 3377 AGCACTTTAATTATGACATCTGCCAAAGAGTCTTTTTTTCTGTCTGAGTTGCCAAAGGCC 3436
QY 1321 ATAAATGACATATCCCATGTGGAATATGCACTCCGACTACATCAGAGAGAGATGTTTC 1380
Db 3437 ATAAATGACATATCCCATGTGGAATATGCACTCCGACTACATCAGAGAGAGATGTTTC 3496
QY 1381 GAGACTTTGCCAAGTACTAAAAAACAATTTGGAACCAAAAGGTAATTTGGCGAAGCATC 1440
Db 3497 GAGACTTTGCCAAGTACTAAAAAACAATTTGGAACCAAAAGGTAATTTGGCGAAGCATC 3556
QY 1441 CCCGAATGGGCTAAGTCTGCCAGTGCAGACTGTCTTAGAGGGGGACAACATGGAAGTCTCCG 1500
Db 3557 CCCGAATGGGCTAAGTCTGCCAGTGCAGACTGTCTTAGAGGGGGACAACATGGAAGTCTCCG 3616

RESULT 6

US-09-949-016-2814
; Sequence 2814, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2814
; LENGTH: 7109
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-2814

Query Match 99.8%; Score 1498.4; DB 4; Length 7109;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1499; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 AGTCAATCTAGTGGGAAAAATTGAACTCTGCACTCCGCTGACTGGCAGAGAAAAATAG 60
Db 2117 AGTCAATCTAGTGGGAAAAATTGAACTCTGCACTCCGCTGACTGGCAGAGAAAAATAG 2176
QY 61 ATGAGACCTTGAAAGACTCCAGGAATTCAAGAGGCCAGGATGAGCTGGAACCTCAAGC 120
Db 2177 ATGAGACCTTGAAAGACTCCAGGAATTCAAGAGGCCAGGATGAGCTGGAACCTCAAGC 2236
QY 121 TGGCCCAAGCTGAGGTGATCAAGGATCCTGGCAGCCCGTGGCGCATCTCCTCATTTGACT 180
Db 2237 TGGCCCAAGCTGAGGTGATCAAGGATCCTGGCAGCCCGTGGCGCATCTCCTCATTTGACT 2296
QY 181 CTCTCCAAGATCACCTCGAAGAAAGTCAAGGACATTGAGAGAGAAATTCGCGCTCTGAAAG 240
Db 2297 CTCTCCAAGATCACCTCGAAGAAAGTCAAGGACATTGAGAGAGAAATTCGCGCTCTGAAAG 2356
QY 241 AGAAGCTGAGCCACGTCATGACCTTGTCTGCCAGCTTACCACTTTGGGCAATTCAAGTCT 300
Db 2357 AGAAGCTGAGCCACGTCATGACCTTGTCTGCCAGCTTACCACTTTGGGCAATTCAAGTCT 2416
QY 301 CACCGTATAACCTCAGACCTCTGGAAGACCTGAAACACCATGAGTGAAGCTTCTGCAGGTGG 360
Db 2417 CACCGTATAACCTCAGACCTCTGGAAGACCTGAAACACCATGAGTGAAGCTTCTGCAGGTGG 2476
QY 361 CCGTGAAGGACCGAGTCAAGGACGCTGCATGAAGCCCAAGGACTTTGGTCCAGCATCTC 420

Db 2477 CCGTGAAGGACCGAGTCAAGGACGCTGCATGAAGACCCACAGGACTTTGGTCCAGCATCTC 2536
QY 421 AGCACTTTCTTCCACGCTGTGCCAGGTCCTTGGAGAGAGAGCCATCTGCCAAACAAG 480
Db 2537 AGCACTTTCTTCCACGCTGTGCCAGGTCCTTGGAGAGAGAGCCATCTGCCAAACAAG 2596
QY 481 TGCCCTACTATATCAACCAAGAGACTCAACAACCTTGTGGGACCATCCCAAAATGACAG 540
Db 2597 TGCCCTACTATATCAACCAAGAGACTCAACAACCTTGTGGGACCATCCCAAAATGACAG 2656
QY 541 AGCTCTACAGTCTTTAGCTGACCTGAATATATGTCAAGATTCTCAGCTTATAGACTGCCA 600
Db 2657 AGCTCTACAGTCTTTAGCTGACCTGAATATATGTCAAGATTCTCAGCTTATAGACTGCCA 2716
QY 601 TGAACCTCCGAAGACTGCAGAAAGCCCTTGTGATCTCTGAGCCTGTCAAGTGCAT 660
Db 2717 TGAACCTCCGAAGACTGCAGAAAGCCCTTGTGATCTCTGAGCCTGTCAAGTGCAT 2776
QY 661 GTGATGCTTGGACCAAGCAACCTCAAGCAAAATGACCAAGCCCATGATATCTGCAGA 720
Db 2777 GTGATGCTTGGACCAAGCAACCTCAAGCAAAATGACCAAGCCCATGATATCTGCAGA 2836
QY 721 TTATTAATTGTTTGACCACTATTTATGACCGCGCTGAGCAAGAGACAAATTTGGTCA 780
Db 2837 TTATTAATTGTTTGACCACTATTTATGACCGCGCTGAGCAAGAGACAAATTTGGTCA 2896
QY 781 ACGTCCCTCTCTGCGTGATATGTCTGAACTGGCTGCTGAATGTTATGATACGGGAC 840
Db 2897 ACGTCCCTCTCTGCGTGATATGTCTGAACTGGCTGCTGAATGTTATGATACGGGAC 2956
QY 841 GAAACAGGAGATCCGTGTCTGTCTTTTAAACTGGCATCATTTCCCTGTGTAAGCAC 900
Db 2957 GAAACAGGAGATCCGTGTCTGTCTTTTAAACTGGCATCATTTCCCTGTGTAAGCAC 3016
QY 901 ATTTGAAGACAGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCAACAGATTTGTG 960
Db 3017 ATTTGAAGACAGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCAACAGATTTGTG 3076
QY 961 ACCAGCGCAGGCTGGGCTCCTTCTGATGATTTCTATCCAAATTCGAAGACAGTGGGTG 1020
Db 3077 ACCAGCGCAGGCTGGGCTCCTTCTGATGATTTCTATCCAAATTCGAAGACAGTGGGTG 3136
QY 1021 AAGTGCATCTTTGGGGGAGTAACTTGAAGCCAAAGTCCGAGAGCTGCTTCCAATTTG 1080
Db 3137 AAGTGCATCTTTGGGGGAGTAACTTGAAGCCAAAGTCCGAGAGCTGCTTCCAATTTG 3196
QY 1081 CTAATATTAAGCCAGAGATCGAAGCGGCCCTCTTCTTGAAGTGGATGAGACTGGAACCC 1140
Db 3197 CTAATATTAAGCCAGAGATCGAAGCGGCCCTCTTCTTGAAGTGGATGAGACTGGAACCC 3256
QY 1141 AGTCATGCTGTGGCTGCCCTCTGACAGAGTGGCTGTCAGAAACTGCCAAGCATC 1200
Db 3257 AGTCATGCTGTGGCTGCCCTCTGACAGAGTGGCTGTCAGAAACTGCCAAGCATC 3316
QY 1201 AGGCCAAATGTAACTCTGCAAAAGTGTCCAATCATTTGATTCAAGTACAGAGTCTAA 1260
Db 3317 AGGCCAAATGTAACTCTGCAAAAGTGTCCAATCATTTGATTCAAGTACAGAGTCTAA 3376
QY 1261 AGCACTTTAATTATGACATCTGCCAAAGCTGTTTTTTCTGTGTCGAGTTGCAAAAGGCC 1320
Db 3377 AGCACTTTAATTATGACATCTGCCAAAGCTGTTTTTTCTGTGTCGAGTTGCAAAAGGCC 3436
QY 1321 ATAAATGACACTATCCCATGTGGAATATGCACTCCGACTACATCAGAGAGAGATGTTTC 1380
Db 3437 ATAAATGACACTATCCCATGTGGAATATGCACTCCGACTACATCAGAGAGAGATGTTTC 3496
QY 1381 GAGACTTTGCCAAGTACTAAAAAACAATTTGGAACCAAAAGGTAATTTGGCGAAGCATC 1440
Db 3497 GAGACTTTGCCAAGTACTAAAAAACAATTTGGAACCAAAAGGTAATTTGGCGAAGCATC 3556
QY 1441 CCCGAATGGGCTAAGTCTGCCAGTGCAGACTGTCTTAGAGGGGGACAACATGGAAGTCTCCG 1500

Db 3557 CCCGAATGGGCTACCTGCCAGTGCAGACTGTCTTAGAGGGGGACACATGAAACTCCCG 3616

RESULT 7
US-09-949-016-2815
; Sequence 2815, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for windows Version 4.0
; SEQ ID NO 2815
; LENGTH: 7109
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-2815

Query Match 99.8%; Score 1498.4; DB 4; Length 7109;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1499; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 AGGTCAATACTGAGTGGGAAAAATTGAACTCGCACTCCGCTGACTGGCAGAGAAAAATAG 60
Db 2117 AGGTCAATACTGAGTGGGAAAAATTGAACTCGCACTCCGCTGACTGGCAGAGAAAAATAG 2176

QY 61 ATGAGACCTTGAAAGACTCCAGGAATTCAAGAGGCCACGGATGAGCTGGAACCTCAAGC 120
Db 2177 ATGAGACCTTGAAAGACTCCAGGAATTCAAGAGGCCACGGATGAGCTGGAACCTCAAGC 2236

QY 121 TGGCCCAAGCTGAGGTGATCAAGGATCTCTGGCAGCCCGTGGGCGATCTCTCATTTGACT 180
Db 2237 TGGCCCAAGCTGAGGTGATCAAGGATCTCTGGCAGCCCGTGGGCGATCTCTCATTTGACT 2296

QY 181 CTCTCCAAGATCACCTCGAGAAAGTCAAGGCACTTCGAGAGAAATTGCGCCTTGAAG 240
Db 2297 CTCTCCAAGATCACCTCGAGAAAGTCAAGGCACTTCGAGAGAAATTGCGCCTTGAAG 2356

QY 241 AGAAGCTGAGCCACGTCATATGACCTTGCTCGCCAGCTTACCACCTTTGGGCATTGAGCTCT 300
Db 2357 AGAAGCTGAGCCACGTCATATGACCTTGCTCGCCAGCTTACCACCTTTGGGCATTGAGCTCT 2416

QY 301 CACCGTATTAACCTCAGCACTCTGGAAGACCTGAACACCAAGATGAAGCTTCTGCAGGTGG 360
Db 2417 CACCGTATTAACCTCAGCACTCTGGAAGACCTGAACACCAAGATGAAGCTTCTGCAGGTGG 2476

QY 361 CCGTCGAGGACCGAGTCAAGGCAAGTGCATGAAGCCCAAGGAGCTTTGGTCCAGCATCTC 420
Db 2477 CCGTCGAGGACCGAGTCAAGGCAAGTGCATGAAGCCCAAGGAGCTTTGGTCCAGCATCTC 2536

QY 421 AGCACTTCTTTCCACGCTGTCTCAAGGGTCCCTGGGAGAGAGCCATCTCGCCAAACAAG 480
Db 2537 AGCACTTCTTTCCACGCTGTCTCAAGGGTCCCTGGGAGAGAGCCATCTCGCCAAACAAG 2596

QY 481 TGGCCTACTATATCAACACGAGACTCAACAACACTTGCTGGGACCATCCCAAAATGACAG 540
Db 2597 TGGCCTACTATATCAACACGAGACTCAACAACACTTGCTGGGACCATCCCAAAATGACAG 2656

QY 541 AGCTCTACGAGCTTTAGCTGACCTGAAATATGTCAGATTCTCAGCTTATAGGACTGCCA 600
Db 2657 AGCTCTACGAGCTTTAGCTGACCTGAAATATGTCAGATTCTCAGCTTATAGGACTGCCA 2716

QY 601 TGAAACTCCGAAAGACTGCAGAAAGGCCCTTTGCTTGATCTCTTGAGCCTGTGAGCTGCAT 660

Db 2717 TGAAACTCCGAAAGACTGCAGAAAGGCCCTTTGCTTGATCTCTTGAGCCTGTGAGCTGCAT 2776

QY 661 GTGATGCTTGACCAAGACCAACCTCAAGCAAAATGACCAAGCCATGATATCTGCAGA 720
Db 2777 GTGATGCTTGACCAAGACCAACCTCAAGCAAAATGACCAAGCCATGATATCTGCAGA 2836

QY 721 TTATTAATTGTTGACCACTATTATGACCGCCTGGAGCAAGACACAATTTGCTCA 780
Db 2837 TTATTAATTGTTGACCACTATTATGACCGCCTGGAGCAAGACACAATTTGCTCA 2896

QY 781 AGCTCCCTCTCTGCGTGATATGTCTGAACTGGCTGCTGAATGTTATGATACGGGAC 840
Db 2897 AGCTCCCTCTCTGCGTGATATGTCTGAACTGGCTGCTGAATGTTATGATACGGGAC 2956

QY 841 GAACAGGAGGATCCGTGCTGCTTTTAAACTGGCATCATTTCCCTGTGTAAGCAC 900
Db 2957 GAACAGGAGGATCCGTGCTGCTTTTAAACTGGCATCATTTCCCTGTGTAAGCAC 3016

QY 901 ATTTGGAAGACAAGTACAGATACCTTTCAAGCAAGTGGCAAGTTCAACAGGATTTGTG 960
Db 3017 ATTTGGAAGACAAGTACAGATACCTTTCAAGCAAGTGGCAAGTTCAACAGGATTTGTG 3076

QY 961 ACCAGCGAGGCTGGGCTCCTTCTGCATGATTTCTATCCAAATTCGAAGACAGTTGGGTG 1020
Db 3077 ACCAGCGAGGCTGGGCTCCTTCTGCATGATTTCTATCCAAATTCGAAGACAGTTGGGTG 3136

QY 1021 AAGTTGATCCTTTGGGGGAGTAACTTGAGCCCAAGTGTCCGGAGCTCTTCCAATTTG 1080
Db 3137 AAGTTGATCCTTTGGGGGAGTAACTTGAGCCCAAGTGTCCGGAGCTCTTCCAATTTG 3196

QY 1081 CTAATATTAAGCCAGAGATCGAAGCGCCCTCTTCTAGACTGATGAGACTGGAACCCC 1140
Db 3197 CTAATATTAAGCCAGAGATCGAAGCGCCCTCTTCTAGACTGATGAGACTGGAACCCC 3256

QY 1141 AGTCCATGCTGTGGCTGCCCGTCTGACAGAGTGGCTGTCGAGAACTGCCAAGCATC 1200
Db 3257 AGTCCATGCTGTGGCTGCCCGTCTGACAGAGTGGCTGTCGAGAACTGCCAAGCATC 3316

QY 1201 AGGCCAATGTAAACATCTGCAAGAGTGTCCAATCATTTGATTCAGAGTACTAA 1260
Db 3317 AGGCCAATGTAAACATCTGCAAGAGTGTCCAATCATTTGATTCAGAGTACTAA 3376

QY 1261 AGCACTTTAATTATGACATCTGCCAAAGCTGCTTTTCTGTGTCAGTTGCCAAAAGGCC 1320
Db 3377 AGCACTTTAATTATGACATCTGCCAAAGCTGCTTTTCTGTGTCAGTTGCCAAAAGGCC 3436

QY 1321 ATAAATGCACTATCCCATGTGGAATATGCACTCCGACTACATCAGAGAGAGATGTTG 1380
Db 3437 ATAAATGCACTATCCCATGTGGAATATGCACTCCGACTACATCAGAGAGAGATGTTG 3496

QY 1381 GAGACTTGGCCAAGTACTAAAAAACAATTTGAAACCAAGGTATTTGCGAAGCATC 1440
Db 3497 GAGACTTGGCCAAGTACTAAAAAACAATTTGAAACCAAGGTATTTGCGAAGCATC 3556

QY 1441 CCCGAATGGGCTACCTGCCAGTGCAGACTGTCTTAGAGGGGGACAACATGGAACCTCCCG 1500
Db 3557 CCCGAATGGGCTACCTGCCAGTGCAGACTGTCTTAGAGGGGGACAACATGGAACCTCCCG 3616

RESULT 8
US-09-949-016-2816
; Sequence 2816, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20

; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2816
; LENGTH: 7109
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-2816

Query Match 99.8%; Score 1498.4; DB 4; Length 7109;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1499; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 AGGTCAATACTGAGTGGAAAAATTGAACCTGCACCTCCGCTGACTGGCAGAGAAAAATAG 60
DB 2117 AGGTCAATACTGAGTGGAAAAATTGAACCTGCACCTCCGCTGACTGGCAGAGAAAAATAG 2176
QY 61 ATGAGACCCCTTGAAGAGCTCCAGAACTTCAAGAGGCCACGGATGAGCTGGAAGCCTCAAGC 120
DB 2177 ATGAGACCCCTTGAAGAGCTCCGGAAGCTTCAAGAGGCCACGGATGAGCTGGAAGCCTCAAGC 2236
QY 121 TGGCCCAAGCTGAGTGAATCAAGGGATCCTGGCAGCCCGTGGCGATCTCTCATTTGACT 180
DB 2237 TGGCCCAAGCTGAGTGAATCAAGGGATCCTGGCAGCCCGTGGCGATCTCTCATTTGACT 2296
QY 181 CTCTCCAAGATCACCTCGAGAAAGTCAAGGCACCTTGAAGAGAAATTGGCCTCTGAAG 240
DB 2297 CTCTCCAAGATCACCTCGAGAAAGTCAAGGCACCTTGAAGAGAAATTGGCCTCTGAAG 2356
QY 241 AGAAGCTGAGCCAGCTCAATGACCTTGGTCCGAGCTTACCACTTTGGGCAATTGAGCTCT 300
DB 2357 AGAAGCTGAGCCAGCTCAATGACCTTGGTCCGAGCTTACCACTTTGGGCAATTGAGCTCT 2416
QY 301 CACCGTATACTCAGCACTCTGGAAGACCTGAAACACAGATGGAAGCTTCTGCAGGTGG 360
DB 2417 CACCGTATACTCAGCACTCTGGAAGACCTGAAACACAGATGGAAGCTTCTGCAGGTGG 2476
QY 361 CCGTCGAGAGCCGAGTCAAGCAGCTGATGAAGCCCAAGGGACTTTGGTCCAGCATCTC 420
DB 2477 CCGTCGAGAGCCGAGTCAAGCAGCTGATGAAGCCCAAGGGACTTTGGTCCAGCATCTC 2536
QY 421 AGCATTCTTTTCCAGCTCTGTCCAGGCTCCCTGGAGAGAGCCATCTCGCCAAAGCAAG 480
DB 2537 AGCATTCTTTTCCAGCTCTGTGTCCAGGCTCCCTGGAGAGAGCCATCTCGCCAAAGCAAG 2596
QY 481 TGGCCCTACTATATCAACACGAGACTCAAAACAATTGCTGGGACCATCCCAAAATGACAG 540
DB 2597 TGGCCCTACTATATCAACACGAGACTCAAAACAATTGCTGGGACCATCCCAAAATGACAG 2656
QY 541 AGCTTACCAAGTCTTTAGCTGACCTGAATAATGTCAATTCTCAGCTTATAGGACTGCCA 600
DB 2657 AGCTTACCAAGTCTTTAGCTGACCTGAATAATGTCAATTCTCAGCTTATAGGACTGCCA 2716
QY 601 TGAAGCTCCGAAGACTGACAGAGGCCCTTTGCTTGATCTCTGAGCCTGTGAGCTGCAT 660
DB 2717 TGAAGCTCCGAAGACTGACAGAGGCCCTTTGCTTGATCTCTGAGCCTGTGAGCTGCAT 2776
QY 661 GTGATGCTTGGACCAACAACCTCAAGCAAAATGACCAAGCCCATGATATCTGCAGA 720
DB 2777 GTGATGCTTGGACCAACAACCTCAAGCAAAATGACCAAGCCCATGATATCTGCAGA 2836
QY 721 TTATTAAATGTTGACCACTATTATGACCGCCTGAGCAAGACAACAATTGGTCA 780
DB 2837 TTATTAAATGTTGACCACTATTATGACCGCCTGAGCAAGACAACAATTGGTCA 2896
QY 781 ACGTCCCTCTCTGCGTGAATATGTGTCTGAAGCTGGCTGTAATGTTATGATACGGGAC 840
DB 2897 ACGTCCCTCTCTGCGTGAATATGTGTCTGAAGCTGGCTGTAATGTTATGATACGGGAC 2956
QY 841 GAACAGGAGGATCCGTCTCTCTTTTAAACTGGCATCATTTCCCTGTGTAAAGCAC 900

DB 2957 GAACAGGAGGATCCGTCTCTCTTTTAAACTGGCATCATTTCCCTGTGTAAAGCAC 3016
QY 901 ATTTGGAAGACAGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCACAGATTTGTG 960
DB 3017 ATTTGGAAGACAGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCACAGATTTGTG 3076
QY 961 ACCAGCCGAGCTGGGCTCCTTCTGCATGATTCTATCCAAATTCCAAGACAGTTGGTG 1020
DB 3077 ACCAGCCGAGCTGGGCTCCTTCTGCATGATTCTATCCAAATTCCAAGACAGTTGGTG 3136
QY 1021 AAGTGCATCCTTTGGGGGAGTAACATTGAGCCAAAGTTCGGAGCTGCTTCCAATTG 1080
DB 3137 AAGTGCATCCTTTGGGGGAGTAACATTGAGCCAAAGTTCGGAGCTGCTTCCAATTG 3196
QY 1081 CTAATAATAAGCCAGAGATCGAAGCGGCCCTCTCTAGACTGATGATGAGACTGGAACCC 1140
DB 3197 CTAATAATAAGCCAGAGATCGAAGCGGCCCTCTCTAGACTGATGATGAGACTGGAACCC 3256
QY 1141 AGTCATGTGTGCTGCCGTCCCTGCACAGAGTGGCTGCAGAACTGGCCAGCATC 1200
DB 3257 AGTCATGTGTGCTGCCGTCCCTGCACAGAGTGGCTGCAGAACTGGCCAGCATC 3316
QY 1201 AGGCCAATGTAACATCTGCAAGAAGTGTCCAATCATTTGATTCAAGTACAGGAGTCTAA 1260
DB 3317 AGGCCAATGTAACATCTGCAAGAAGTGTCCAATCATTTGATTCAAGTACAGGAGTCTAA 3376
QY 1261 AGCATTTAATTATGACATCTGCCAAGCTGTTTTTTCTGTGCGAGTTGCAAAAGGCC 1320
DB 3377 AGCATTTAATTATGACATCTGCCAAGCTGTTTTTTCTGTGCGAGTTGCAAAAGGCC 3436
QY 1321 ATAAATGACATATCCATGATGTGAATATGCACTCCGACTACATCAGGAAGAAGTTC 1380
DB 3437 ATAAATGACATATCCATGATGTGAATATGCACTCCGACTACATCAGGAAGAAGTTC 3496
QY 1381 GAGACTTTGCCAAGGTACTAAAAACAATTTCGAACCAAAAGGTAATTTGCGAAGCATC 1440
DB 3497 GAGACTTTGCCAAGGTACTAAAAACAATTTCGAACCAAAAGGTAATTTGCGAAGCATC 3556
QY 1441 CCCGATGGGCTACTGCGAAGTGCAGACTGTCTTAGAGGGGGCAACATGGAACCTCCG 1500
DB 3557 CCCGATGGGCTACTGCGAAGTGCAGACTGTCTTAGAGGGGGCAACATGGAACCTCCG 3616

RESULT 9
US-09-949-016-2817
; Sequence 2817, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2817
; LENGTH: 7109
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-2817

Query Match 99.8%; Score 1498.4; DB 4; Length 7109;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1499; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 AGTCAATACTAGTGGGAAAAATTGAACCTGCACTCCGCTGACTGGCAGAGAAAAATAG 60
DB 2117 AGGTCAATACTAGTGGGAAAAATTGAACCTGCACTCCGCTGACTGGCAGAGAAAAATAG 2176
QY 61 ATGAGACCCCTTGAAAGACTCCAGAACTTCAAGAGGCCAGATGAGCTGGAACCTCAAGC 120
DB 2177 ATGAGACCCCTTGAAAGACTCCGGAACCTCAAGAGGCCAGATGAGCTGGAACCTCAAGC 2236
QY 121 TGGGCCAAGCTGAGTGCATCAAGGATCCTGGCAGCCCGTGGCGATCTCCTCATTTGACT 180
DB 2237 TGGGCCAAGCTGAGTGCATCAAGGATCCTGGCAGCCCGTGGCGATCTCCTCATTTGACT 2296
QY 181 CTCTCCAAGATCACCTCGAGAAAGTCAAGGCACTTCGAGAGAAATTGCCCTCTGAAG 240
DB 2297 CTCTCCAAGATCACCTCGAGAAAGTCAAGGCACTTCGAGAGAAATTGCCCTCTGAAG 2356
QY 241 AGAAGCTGAGCCACGTCATGACCTTGCTCGCCAGCTTACCACTTTGGGCATTGAGCTCT 300
DB 2357 AGAAGCTGAGCCACGTCATGACCTTGCTCGCCAGCTTACCACTTTGGGCATTGAGCTCT 2416
QY 301 CACCGTATAACCTCAGCACTTGGAAGACCTGAACACCAAGTGAAGCTTCTGCAAGTGG 360
DB 2417 CACCGTATAACCTCAGCACTTGGAAGACCTGAACACCAAGTGAAGCTTCTGCAAGTGG 2476
QY 361 CCGTGGAGGACCGAGTCAAGGCACTGCATGAAGCCACAGGCACTTTGGTCCAGCATCTC 420
DB 2477 CCGTGGAGGACCGAGTCAAGGCACTGCATGAAGCCACAGGCACTTTGGTCCAGCATCTC 2536
QY 421 AGCACTTTCTTTCCACGCTGTGTCCAGGGTCCCTGGGAGAGGCCATCTGCCAACAAG 480
DB 2537 AGCACTTTCTTTCCACGCTGTGTCCAGGGTCCCTGGGAGAGGCCATCTGCCAACAAG 2596
QY 481 TGGCCTACTATATCAACCCAGCACTCAACAACCTTGCTGGGACCATCCCAAAATGACAG 540
DB 2597 TGGCCTACTATATCAACCCAGCACTCAACAACCTTGCTGGGACCATCCCAAAATGACAG 2656
QY 541 AGCTCTACCACTCTTAGCTGACTGAATATGTCAGATTCTCAGCTTATAGACTGCCA 600
DB 2657 AGCTCTACCACTCTTAGCTGACTGAATATGTCAGATTCTCAGCTTATAGACTGCCA 2716
QY 601 TGAACCTCCGAAAGACTGCAGAAAGCCCTTGTCTTGATCTCTGAGCCTGTGAGCTGCAT 660
DB 2717 TGAACCTCCGAAAGACTGCAGAAAGCCCTTGTCTTGATCTCTGAGCCTGTGAGCTGCAT 2776
QY 661 GTGATGCTTGGACCAAGCAACCTCAAGCAAAATGACCAAGCCCATGATATCCTGCAGA 720
DB 2777 GTGATGCTTGGACCAAGCAACCTCAAGCAAAATGACCAAGCCCATGATATCCTGCAGA 2836
QY 721 TTATTAATTGTTGACCACTATTATTAAGCCGCTGGAGCAAGACCAACAATTGGTCA 780
DB 2837 TTATTAATTGTTGACCACTATTATTAAGCCGCTGGAGCAAGACCAACAATTGGTCA 2896
QY 781 ACGTCCCTCTCTGCGTGATATGCTGAACTGGCTGCTGAATGTTATGATACGGGAC 840
DB 2897 ACGTCCCTCTCTGCGTGATATGCTGAACTGGCTGCTGAATGTTATGATACGGGAC 2956
QY 841 GAAAGGAGAGATCCGTCTCTCTTTTAAAACTGGCATCATTTCCCTGTGAAGCAC 900
DB 2957 GAAAGGAGAGATCCGTCTCTCTTTTAAAACTGGCATCATTTCCCTGTGAAGCAC 3016
QY 901 ATTGGAAGACAAGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCAACAGATTGTTG 960
DB 3017 ATTGGAAGACAAGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCAACAGATTGTTG 3076
QY 961 ACCAGGCAAGGCTGGGCTCTCTTCTGATGATTTCTATCCAATTTCAAGACAGTTGGGTG 1020
DB 3077 ACCAGGCAAGGCTGGGCTCTCTTCTGATGATTTCTATCCAATTTCAAGACAGTTGGGTG 3136
QY 1021 AAGTTGATCTTTTGGGGCAGTAACATTGAGCCAAAGTGTCCGAGCTGCTTCCAATTG 1080
DB 3137 AAGTTGATCTTTTGGGGCAGTAACATTGAGCCAAAGTGTCCGAGCTGCTTCCAATTG 3196
QY 1081 CTAATAATAAGCCAGAGATCGAAAGGCGCCTCTTCTAGACTGAGTGAAGCTGAACCCC 1140

DB 3197 CTAATAATAAGCCAGAGATCGAAGCGGCCCTCTCTAGACTGAGTGAAGCTGAACCCC 3256
QY 1141 AGTCAATGCTGTGGCTGCGCCGCTCTGACACAGAGTGGCTGTGAGAAACTGCCAAGCATC 1200
DB 3257 AGTCAATGCTGTGGCTGCGCCGCTCTGACACAGAGTGGCTGTGAGAAACTGCCAAGCATC 3316
QY 1201 AGCCCAATGTACATCTGCAAGAAGTGTCCAATCATTTGATTCAAGTACAGAGTCTAA 1260
DB 3317 AGCCCAATGTACATCTGCAAGAAGTGTCCAATCATTTGATTCAAGTACAGAGTCTAA 3376
QY 1261 AGCACTTTAATTATGACATCTGCCAAAGCTGCTTTTCTGCTGAGTTCGCAAAAGGCC 1320
DB 3377 AGCACTTTAATTATGACATCTGCCAAAGCTGCTTTTCTGCTGAGTTCGCAAAAGGCC 3436
QY 1321 ATAAATGCACTATCCCATGCTGGAATATTGCACTCCGACTACATCAGAGAGATGTTT 1380
DB 3437 ATAAATGCACTATCCCATGCTGGAATATTGCACTCCGACTACATCAGAGAGATGTTT 3496
QY 1381 GAGACTTTGCCAAGTACTAATAAAACAATTTCGAACCAAAAGTATTTTGGCAAGCATC 1440
DB 3497 GAGACTTTGCCAAGTACTAATAAAACAATTTCGAACCAAAAGTATTTTGGCAAGCATC 3556
QY 1441 CCCGAATGGGCTACCTGCCAGTGCAGACTGTCTTAGAGGGGCAACAATGGAACCTCCC 1500
DB 3557 CCCGAATGGGCTACCTGCCAGTGCAGACTGTCTTAGAGGGGCAACAATGGAACCTCCC 3616

RESULT 10
US-09-949-016-2818
; Sequence 2818, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; PRIOR FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2818
; LENGTH: 7109
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-2818

Query Match 99.8%; Score 1498.4; DB 4; Length 7109;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1499; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1 AGTCAATACTAGTGGGAAAAATTGAACCTGCACTCCGCTGACTGGCAGAGAAAAATAG 60
DB 2117 AGGTCAATACTAGTGGGAAAAATTGAACCTGCACTCCGCTGACTGGCAGAGAAAAATAG 2176
QY 61 ATGAGACCCCTTGAAAGACTCCAGAACTTCAAGAGGCCAGATGAGCTGGAACCTCAAGC 120
DB 2177 ATGAGACCCCTTGAAAGACTCCGGAACCTCAAGAGGCCAGATGAGCTGGAACCTCAAGC 2236
QY 121 TGGGCCAAGCTGAGTGCATCAAGGATCCTGGCAGCCCGTGGCGATCTCCTCATTTGACT 180
DB 2237 TGGGCCAAGCTGAGTGCATCAAGGATCCTGGCAGCCCGTGGCGATCTCCTCATTTGACT 2296
QY 181 CTCTCCAAGATCACCTCGAGAAAGTCAAGGCACTTCGAGAGAAATTGCCCTCTGAAG 240
DB 2297 CTCTCCAAGATCACCTCGAGAAAGTCAAGGCACTTCGAGAGAAATTGCCCTCTGAAG 2356

QY 241 AGAACGTGAGCCACGCTCAATGACCTTGCTGCGCAGCTTACCACTTTGGGCATTGACGCTCT 300
 Db 2357 AGAACGTGAGCCACGCTCAATGACCTTGCTGCGCAGCTTACCACTTTGGGCATTGACGCTCT 2416
 QY 301 CACCGTATTAACCTCAGCACTCTGGAGAAGCTGAAACACCAATGGAAGCTTCTGCAGGTGG 360
 Db 2417 CACCGTATTAACCTCAGCACTCTGGAGAAGCTGAAACACCAATGGAAGCTTCTGCAGGTGG 2476
 QY 361 CCGTGAAGGACCGAGTCAGGCACTGCATGAAAGCCACAGGGAATTGGTCCAGCATCTC 420
 Db 2477 CCGTGAAGGACCGAGTCAGGCACTGCATGAAAGCCACAGGGAATTGGTCCAGCATCTC 2536
 QY 421 AGCACTTTCTTCCACGCTGTGTCCAGGGTCCCTGGAGAGAGCCATCTCGCCCAACAAG 480
 Db 2537 AGCACTTTCTTCCACGCTGTGTCCAGGGTCCCTGGAGAGAGCCATCTCGCCCAACAAG 2596
 QY 481 TGCCTTACTATATCAACCAAGAGACTCAACAACCTTGCTGGGACCATCCCAAAATGACAG 540
 Db 2597 TGCCTTACTATATCAACCAAGAGACTCAACAACCTTGCTGGGACCATCCCAAAATGACAG 2656
 QY 541 AGCTCTACCACTCTTTAGCTGACCTGAATAATGTCAGATTCTCAGCTTATAGAGACTGCCA 600
 Db 2657 AGCTCTACCACTCTTTAGCTGACCTGAATAATGTCAGATTCTCAGCTTATAGAGACTGCCA 2716
 QY 601 TGAAACTCCGAAGACTGAGAGAGGCCCCCTTGCTTGAATCTCTTGAGCCTGTCACTGCAG 660
 Db 2717 TGAAACTCCGAAGACTGAGAGAGGCCCCCTTGCTTGAATCTCTTGAGCCTGTCACTGCAG 2776
 QY 661 GTGATGCTTGGACCAACAACCTCAAGCAAAATGACAGCCCATGATATCTCTGCAG 720
 Db 2777 GTGATGCTTGGACCAACAACCTCAAGCAAAATGACAGCCCATGATATCTCTGCAG 2836
 QY 721 TTATTATTGTTGACCACTATTATGACCGCCTGAGCAAGAGCAACAATTTGTTGTTCA 780
 Db 2837 TTATTATTGTTGACCACTATTATGACCGCCTGAGCAAGAGCAACAATTTGTTGTTCA 2896
 QY 781 ACGTCCCTCTGCTGCTGATATGTCGAACTGGCTGCTGAATGTTATGATACGGGAC 840
 Db 2897 ACGTCCCTCTGCTGCTGATATGTCGAACTGGCTGCTGAATGTTATGATACGGGAC 2956
 QY 841 GAACAGGAGGATCCGTGCTGCTTTTAAAACTGCATCATTTCCCTGTGTAAGCAC 900
 Db 2957 GAACAGGAGGATCCGTGCTGCTTTTAAAACTGCATCATTTCCCTGTGTAAGCAC 3016
 QY 901 ATTTGGAAGACAAGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCAACAGATTTTGTG 960
 Db 3017 ATTTGGAAGACAAGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCAACAGATTTTGTG 3076
 QY 961 ACCAGCGCAGGCTGGGCTCTCTGATGATTTCAAAATTCACAGACAGTTGGGTG 1020
 Db 3077 ACCAGCGCAGGCTGGGCTCTCTGATGATTTCAAAATTCACAGACAGTTGGGTG 3136
 QY 1021 AAGTTGATCCTTTGGGGGAGTTAATGAGCCCAAGTGTCCGAGCTGCTTCCAATTG 1080
 Db 3137 AAGTTGATCCTTTGGGGGAGTTAATGAGCCCAAGTGTCCGAGCTGCTTCCAATTG 3196
 QY 1081 CTAATAATAAGCCAGAGATCGAAGCGGCTCTTCTTGAAGTGGATGAGACTGGAACCCC 1140
 Db 3197 CTAATAATAAGCCAGAGATCGAAGCGGCTCTTCTTGAAGTGGATGAGACTGGAACCCC 3256
 QY 1141 AGTCCATGCTGTGCTGCCCTCTCTGACAGAGTGGCTGTCAGAAATGCGCAAGCATC 1200
 Db 3257 AGTCCATGCTGTGCTGCCCTCTCTGACAGAGTGGCTGTCAGAAATGCGCAAGCATC 3316
 QY 1201 AGGCCAATATGAATCTGCAAAAGAGTGTCCAATCATTTGATTCAAGTACAGAGTCTAA 1260
 Db 3317 AGGCCAATATGAATCTGCAAAAGAGTGTCCAATCATTTGATTCAAGTACAGAGTCTAA 3376
 QY 1261 AGCACTTTAATTAATGATCTGCAAAAGCTGCTTTTCTGCTGAGTTGCAAAAGGCC 1320
 Db 3377 AGCACTTTAATTAATGATCTGCAAAAGCTGCTTTTCTGCTGAGTTGCAAAAGGCC 3436
 QY 1321 ATAAATGACATAATCCCATGTGTGAATATTGCACTCCGACTACATCAGAGAGAGATGTTT 1380

Db 3437 ATAAATGACATAATCCCATGTGTGAATATTGCACTCCGACTACATCAGAGAGAGATGTTT 3496
 QY 1381 GAGACTTTGCCAAGGTACTAATAAAACAAATTTGGAACCAAAAGGTAATTTGGCAAGCATC 1440
 Db 3497 GAGACTTTGCCAAGGTACTAATAAAACAAATTTGGAACCAAAAGGTAATTTGGCAAGCATC 3556
 QY 1441 CCGAATGGGCTAAGCTGCGAGTGCAGCTGTCTTAGAGGGGCAACAATGAAACTCCCG 1500
 Db 3557 CCGAATGGGCTAAGCTGCGAGTGCAGCTGTCTTAGAGGGGCAACAATGAAACTCCCG 3616

RESULT 11
 US-09-949-016-2819
 ; Sequence 2819, Application US/09949016
 ; Patent No. 6812339
 ; GENERAL INFORMATION:
 ; APPLICANT: VENTER, J. Craig et al.
 ; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
 ; FILE REFERENCE: C1001307
 ; CURRENT APPLICATION NUMBER: US/09/949, 016
 ; PRIOR FILING DATE: 2000-04-14
 ; PRIOR FILING DATE: 2000-10-20
 ; PRIOR APPLICATION NUMBER: 60/237, 768
 ; PRIOR FILING DATE: 2000-10-03
 ; PRIOR APPLICATION NUMBER: 60/231, 498
 ; PRIOR FILING DATE: 2000-09-08
 ; NUMBER OF SEQ ID NOS: 207012
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 2819
 ; LENGTH: 7109
 ; TYPE: DNA
 ; ORGANISM: Human
 ; US-09-949-016-2819

Query Match 99.8%; Score 1498.4; DB 4; Length 7109;
 Best Local Similarity 99.9%; Pred. No. 0;
 Matches 1499; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 QY 1 AGGTCAATACTGAGTGGGAAAAATTGAACTGCACTCCGCTGACTGCGACAGAAAAATAG 60
 Db 2117 AGGTCAATACTGAGTGGGAAAAATTGAACTGCACTCCGCTGACTGCGACAGAAAAATAG 2176
 QY 61 ATGAGACCCCTTGAAGACTCCAGGAATTCAAGAGGCCACGAGTGAAGTGAAGTGAAGC 120
 Db 2177 ATGAGACCCCTTGAAGACTCCAGGAATTCAAGAGGCCACGAGTGAAGTGAAGTGAAGC 2236
 QY 121 TGGCCAAAGTGAAGTGAATCAAGGATCTGGCAGCCCGTGGCGATCTCCTCATTTGACT 180
 Db 2237 TGGCCAAAGTGAAGTGAATCAAGGATCTGGCAGCCCGTGGCGATCTCCTCATTTGACT 2296
 QY 181 CTCTCAAGATCACTCGAAGAGTCAAGGCACTTCGAGAGAAATTGGCGCTTGAAG 240
 Db 2297 CTCTCAAGATCACTCGAAGAGTCAAGGCACTTCGAGAGAAATTGGCGCTTGAAG 2356
 QY 241 AGAAGTGAAGCCAGTCAATGACCTTGCTGCGCAGCTTACCACTTTGGGCATTGAGTCT 300
 Db 2357 AGAAGTGAAGCCAGTCAATGACCTTGCTGCGCAGCTTACCACTTTGGGCATTGAGTCT 2416
 QY 301 CACCGTATTAACCTCAGCACTCTGGAAGACCTGAACACCAATGAAAGCTTTCAGAGTGG 360
 Db 2417 CACCGTATTAACCTCAGCACTCTGGAAGACCTGAACACCAATGAAAGCTTTCAGAGTGG 2476
 QY 361 CCGTGAAGGACCGAGTCAAGGCACTGATGAAGCCCAAGGACTTTGGTCCAGCATCTC 420
 Db 2477 CCGTGAAGGACCGAGTCAAGGCACTGATGAAGCCCAAGGACTTTGGTCCAGCATCTC 2536
 QY 421 AGCACTTTCTTCCACGCTGTCTCAAGGCTCCCTGGGAGAGAGCCATCTGCAAAACAAG 480
 Db 2537 AGCACTTTCTTCCACGCTGTCTCAAGGCTCCCTGGGAGAGAGCCATCTGCAAAACAAG 2596

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QY 481 TGCCCTACTATATCAACACGAGACTCAACAACCTGTGCGGACCATCCCAAAATGACAG 540
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Db 2597 TGCCCTACTATATCAACACGAGACTCAACAACCTGTGCGGACCATCCCAAAATGACAG 2656
QY 541 AGCTCTACAGTCTTTAGCTGACCTGAAATAATGTCAATTCTCAGCTTATAGACTGCCA 600
    |||||||
Db 2657 AGCTCTACAGTCTTTAGCTGACCTGAAATAATGTCAATTCTCAGCTTATAGACTGCCA 2716
QY 601 TGAACCTCCGAAGACTGCAGAAAGCCCTTGTGATCTCTTGAGCTGTCAAGCTGCAT 660
    |||||||
Db 2717 TGAACCTCCGAAGACTGCAGAAAGCCCTTGTGATCTCTTGAGCTGTCAAGCTGCAT 2776
QY 661 GTGATGCTTTGGAACCAAGCAACCTCAAGCAAAATGACCAAGCCCATGTATCTCGACA 720
    |||||||
Db 2777 GTGATGCTTTGGAACCAAGCAACCTCAAGCAAAATGACCAAGCCCATGTATCTCGACA 2836
QY 721 TTATTAATTGTTTGACCACTATTATGACCGCCTGAGCAAGACACAATTTGTTCA 780
    |||||||
Db 2837 TTATTAATTGTTTGACCACTATTATGACCGCCTGAGCAAGACACAATTTGTTCA 2896
QY 781 ACGTCCCTCTCTGCGTGATATGTCTGAACTGGCTGCTGAATGTTATGATACGGAC 840
    |||||||
Db 2897 ACGTCCCTCTCTGCGTGATATGTCTGAACTGGCTGCTGAATGTTATGATACGGAC 2956
QY 841 GAACAGGAGGATCCGTCTCTTTTAAAACTGGCATCATTTCCCTGTGTAAGCAC 900
    |||||||
Db 2957 GAACAGGAGGATCCGTCTCTTTTAAAACTGGCATCATTTCCCTGTGTAAGCAC 3016
QY 901 ATTTGAGACACAAGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCAACAGATTTGTG 960
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Db 3017 ATTTGAGACACAAGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCAACAGATTTGTG 3076
QY 961 ACCAGCGAGGCTGGGCTCTCTTGCAATGATTTCTATCCAAATTTCAAGACAGTTGGGTG 1020
    |||||||
Db 3077 ACCAGCGAGGCTGGGCTCTCTTGCAATGATTTCTATCCAAATTTCAAGACAGTTGGGTG 3136
QY 1021 AAGTTGCACTCTTTGGGGCAGTAACATTGAGCCAAAGTGTCCGAGCTTCCCAATTG 1080
    |||||||
Db 3137 AAGTTGCACTCTTTGGGGCAGTAACATTGAGCCAAAGTGTCCGAGCTTCCCAATTG 3196
QY 1081 CTAATAATAAGCCAGAGATCGAAGCGGCCCTTCTCTAGACTGATGAGACTGGAACCC 1140
    |||||||
Db 3197 CTAATAATAAGCCAGAGATCGAAGCGGCCCTTCTCTAGACTGATGAGACTGGAACCC 3256
QY 1141 AGTCCATGCTGTGGCTGCCCTCTGCAAGAGTGGCTGCTGCAGAACTGCCAAGCATC 1200
    |||||||
Db 3257 AGTCCATGCTGTGGCTGCCCTCTGCAAGAGTGGCTGCTGCAGAACTGCCAAGCATC 3316
QY 1201 AGGCCAAATGTAACATCTGCAAAAGTGTCCAATCATTTGATTCAAGTAAGAGTCTAA 1260
    |||||||
Db 3317 AGGCCAAATGTAACATCTGCAAAAGTGTCCAATCATTTGATTCAAGTAAGAGTCTAA 3376
QY 1261 AGCACTTAAATTATGACATCTGCCAAAGCTCTTTTCTGTGCTGAGTGCAGAAAGGCC 1320
    |||||||
Db 3377 AGCACTTAAATTATGACATCTGCCAAAGCTCTTTTCTGTGCTGAGTGCAGAAAGGCC 3436
QY 1321 ATAAATGCACTATCCCATGTGGAATATTGCACTCCGACTACATCAGAGAGAAGATGTT 1380
    |||||||
Db 3437 ATAAATGCACTATCCCATGTGGAATATTGCACTCCGACTACATCAGAGAGAAGATGTT 3496
QY 1381 GAGACTTTGCCAAGGTAATAAAACAATTTGCAACCAAAAGTAATTTTGCAGAGCATC 1440
    |||||||
Db 3497 GAGACTTTGCCAAGGTAATAAAACAATTTGCAACCAAAAGTAATTTTGCAGAGCATC 3556
QY 1441 CCCGAATGGGCTACCTGCGAGTGCAGACTGTCTTGAAGGGGGACAACATGGAACCTCCCG 1500
    |||||||
Db 3557 CCCGAATGGGCTACCTGCGAGTGCAGACTGTCTTGAAGGGGGACAACATGGAACCTCCCG 3616
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RESULT 12
US-09-949-016-2820
; Sequence 2820, Application US/09949016
; Patent No. 6812339

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; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2820
; LENGTH: 7109
; TYPE: DNA
; ORGANISM: Human
; US-09-949-016-2820
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Query Match 99.8%; Score 1498.4; DB 4; Length 7109;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1499; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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QY 1 AGTCAATATCTGAGTGGAAAAATTGAACCTGCACCTCCGCTGACTGCGAGAAAAATAG 60
    |||||||
Db 2117 AGTCAATATCTGAGTGGAAAAATTGAACCTGCACCTCCGCTGACTGCGAGAAAAATAG 2176
QY 61 ATGAGACCTTGAAGAAGCTCCAGGAATTCAAGAGGCCACGATGAGCTGAACCTCAAGC 120
    |||||||
Db 2177 ATGAGACCTTGAAGAAGCTCCGGAATTCAAGAGGCCACGATGAGCTGAACCTCAAGC 2236
QY 121 TGCGCCAAGCTGAGGTGATCAAGGATCTCTGCGAGCCCGTGGGCAATCTCTCATTTACT 180
    |||||||
Db 2237 TGCGCCAAGCTGAGGTGATCAAGGATCTCTGCGAGCCCGTGGGCAATCTCTCATTTACT 2296
QY 181 CTCTCCAGATCACTCGAGAAAGTCAAGCACTTGCAGAGAGAAATTGGCCTCTGAAG 240
    |||||||
Db 2297 CTCTCCAGATCACTCGAGAAAGTCAAGCACTTGCAGAGAGAAATTGGCCTCTGAAG 2356
QY 241 AGAAGCTGAGCCACGTCAATGACCTTGCTGCCAGCTTACCATTTGGGCATTCAGCTCT 300
    |||||||
Db 2357 AGAAGCTGAGCCACGTCAATGACCTTGCTGCCAGCTTACCATTTGGGCATTCAGCTCT 2416
QY 301 CACCGTATAACCTCAGCACTCTGGAAGACCTGAAACACCAAGATGAAGCTTCTGCAGGTG 360
    |||||||
Db 2417 CACCGTATAACCTCAGCACTCTGGAAGACCTGAAACACCAAGATGAAGCTTCTGCAGGTG 2476
QY 361 CCGTGAAGACCGAGTCAAGGAGCTGCAAGGCCACAGGACCTTGTCCAGCATCTC 420
    |||||||
Db 2477 CCGTGAAGACCGAGTCAAGGAGCTGCAAGGCCACAGGACCTTGTCCAGCATCTC 2536
QY 421 AGCACTTTCTTTCCACGTGTGTCCAGGGTCCCTGGAGAGAGGCCATCTGCCAAACAAG 480
    |||||||
Db 2537 AGCACTTTCTTTCCACGTGTGTCCAGGGTCCCTGGAGAGAGGCCATCTGCCAAACAAG 2596
QY 481 TGCCCTACTATATCAACCAAGAGACTCAACAACCTTGTGGAGACCATCCCAAAATGACAG 540
    |||||||
Db 2597 TGCCCTACTATATCAACCAAGAGACTCAACAACCTTGTGGAGACCATCCCAAAATGACAG 2656
QY 541 AGCTCTACAGTCTTTAGCTGACCTGAATAATGTCAAGATTTCAAGTTATAGGACTGCCA 600
    |||||||
Db 2657 AGCTCTACAGTCTTTAGCTGACCTGAATAATGTCAAGATTTCAAGTTATAGGACTGCCA 2716
QY 601 TGAACCTCCGAAGACTGCAGAAAGCCCTTGTGATCTCTTGAAGCTGTCAAGCTGCAT 660
    |||||||
Db 2717 TGAACCTCCGAAGACTGCAGAAAGCCCTTGTGATCTCTTGAAGCTGTCAAGCTGCAT 2776
QY 661 GTGATGCTTTGGAACCAAGCAACCTCAAGCAAAATGACCAAGCCCATGATATCTGCAGA 720
    |||||||
Db 2777 GTGATGCTTTGGAACCAAGCAACCTCAAGCAAAATGACCAAGCCCATGATATCTGCAGA 2836
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QY 721 TTATTATTGTTTGACCACTATTATGACCGCTGGAGCAAGACACAATTTGGTCA 780
Db 2837 TTATTATTGTTTGACCACTATTATGACCGCTGGAGCAAGACACAATTTGGTCA 2896
QY 781 ACGTCCCTCTCTGCGTGAGATATGTCTGAACTGGCTGCTGAATGTTATGATACGGGAC 840
Db 2897 ACGTCCCTCTCTGCGTGAGATATGTCTGAACTGGCTGCTGAATGTTATGATACGGGAC 2956
QY 841 GAACAGGGAGGATCCGTGTCTCTTTAAACTGGCATCATTTCCCTGTGTAAGCAC 900
Db 2957 GAACAGGGAGGATCCGTGTCTCTTTAAACTGGCATCATTTCCCTGTGTAAGCAC 3016
QY 901 ATTTGAAGACAAGTACAGATACCTTTCAAGCAAGTGGCAAGTTCAACAGATTTTGTG 960
Db 3017 ATTTGAAGACAAGTACAGATACCTTTCAAGCAAGTGGCAAGTTCAACAGATTTTGTG 3076
QY 961 ACCAGCGCAGGCTGGGCTCTCTTGATGATGATTTCTATCCAAATTCAGACAGTTGGGTG 1020
Db 3077 ACCAGCGCAGGCTGGGCTCTCTTGATGATGATTTCTATCCAAATTCAGACAGTTGGGTG 3136
QY 1021 AAGTTGCATCCTTTGGGGGCAAGTACATTGAGCCAAAGTCCGAGCTGCTTCCAATTTG 1080
Db 3137 AAGTTGCATCCTTTGGGGGCAAGTACATTGAGCCAAAGTCCGAGCTGCTTCCAATTTG 3196
QY 1081 CTAATTAATAAGCCAGAGATCGAAGCGGCCCTCTTCTAGACTGTGAGTGAAGTGAACCC 1140
Db 3197 CTAATTAATAAGCCAGAGATCGAAGCGGCCCTCTTCTAGACTGTGAGTGAAGTGAACCC 3256
QY 1141 AGTCCATGCTGTGGCTGCCCTCTCTGACAGAGTGGCTCTGACAGAACTGCCAAGCATC 1200
Db 3257 AGTCCATGCTGTGGCTGCCCTCTCTGACAGAGTGGCTCTGACAGAACTGCCAAGCATC 3316
QY 1201 AGGCCAAATGTACATCTGCAAGAAGTGTCCAAATCATTTGATTGAGTTACAGAGAGTCTAA 1260
Db 3317 AGGCCAAATGTACATCTGCAAGAAGTGTCCAAATCATTTGATTGAGTTACAGAGAGTCTAA 3376
QY 1261 AGCACTTTAATTATGACATCTGCCAAAGCTGCTTTTCTGTGAGTGGCAAAAAGGCC 1320
Db 3377 AGCACTTTAATTATGACATCTGCCAAAGCTGCTTTTCTGTGAGTGGCAAAAAGGCC 3436
QY 1321 ATAAATGCACTATCCCATGTGGAATATTGCACTCCGACTACATCAGAGAGAATGTTTC 1380
Db 3437 ATAAATGCACTATCCCATGTGGAATATTGCACTCCGACTACATCAGAGAGAATGTTTC 3496
QY 1381 GAGACTTTGCCAAGGTACTATAAAAACAAATTTGAAACCAAAAGTATTTTGGCAAGCATC 1440
Db 3497 GAGACTTTGCCAAGGTACTATAAAAACAAATTTGAAACCAAAAGTATTTTGGCAAGCATC 3556
QY 1441 CCCGAATGGGCTACCTGCCAGTGCAGACTGTCTTAGAGGGGGACAACATGGAATCCCG 1500
Db 3557 CCCGAATGGGCTACCTGCCAGTGCAGACTGTCTTAGAGGGGGACAACATGGAATCCCG 3616

RESULT 13
US-09-949-016-2822
; Sequence 2822, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2822
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; LENGTH: 7141
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-2822

Query Match      99.8%; Score 1498.4; DB 4; Length 7141;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1499; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 AGGTCAATACTGAGTGGGAAAAATGAACCTGCACCTCCGCTGACTGGCAGAGAAAAATAG 60
Db 2117 AGGTCAATACTGAGTGGGAAAAATGAACCTGCACCTCCGCTGACTGGCAGAGAAAAATAG 2176
QY 61 ATGAGACCCTTGAAGAAGCTCCAGAACTTCAAGAGGCCACCGATGAGCTGACTCAAGC 120
Db 2177 ATGAGACCCTTGAAGAAGCTCCGGAACCTTCAAGAGGCCACCGATGAGCTGACTCAAGC 2236
QY 121 TGGCCCAAGCTGAGGTGATCAAGGATCCTGGCAGCCCGTGGCGATCTCTCATTTGACT 180
Db 2237 TGGCCCAAGCTGAGGTGATCAAGGATCCTGGCAGCCCGTGGCGATCTCTCATTTGACT 2296
QY 181 CTCTCCAAGATCACCTCGAGAAAGTCAAGGCACCTTCAAGAGAAATTTGCGCTCTGAAG 240
Db 2297 CTCTCCAAGATCACCTCGAGAAAGTCAAGGCACCTTCAAGAGAAATTTGCGCTCTGAAG 2356
QY 241 AGAAGCTGAGCCACGTTCAATGACCTTGTCTGCGCAGCTTACCACTTTGGGCAATTGACTCT 300
Db 2357 AGAAGCTGAGCCACGTTCAATGACCTTGTCTGCGCAGCTTACCACTTTGGGCAATTGACTCT 2416
QY 301 CACCGTATAACCTCAGCACTCTGGAAGACCTTGAACACCAAGATGGAAGCTTCTGCAGGTGG 360
Db 2417 CACCGTATAACCTCAGCACTCTGGAAGACCTTGAACACCAAGATGGAAGCTTCTGCAGGTGG 2476
QY 361 CCGTCGAGGACCGAGTCAAGCAAGCTGCAATGAAGCCCAAGGACCTTGGTCCAGCATCTC 420
Db 2477 CCGTCGAGGACCGAGTCAAGCAAGCTGCAATGAAGCCCAAGGACCTTGGTCCAGCATCTC 2536
QY 421 AGCACTTTCTTTCCACGCTGTGTCCAGGGTCCCTGGAGAGAGCCATCTCGCCAAACAAG 480
Db 2537 AGCACTTTCTTTCCACGCTGTGTCCAGGGTCCCTGGAGAGAGCCATCTCGCCAAACAAG 2596
QY 481 TGCCCTACTATATCAACCAAGACTCAAAACAATTGCTGGGACCATCCCAAAATGACAG 540
Db 2597 TGCCCTACTATATCAACCAAGACTCAAAACAATTGCTGGGACCATCCCAAAATGACAG 2656
QY 541 AGCTTACCAAGTCTTTAGCTGACTGAATATGTCAATTTCTCAGCTTATAGACTGCCA 600
Db 2657 AGCTTACCAAGTCTTTAGCTGACTGAATATGTCAATTTCTCAGCTTATAGACTGCCA 2716
QY 601 TGAACCTCCGAAGACTGCAGAGGCCCTTTGCTTGGATCTCTTGAAGCTGTGACCTGCAT 660
Db 2717 TGAACCTCCGAAGACTGCAGAGGCCCTTTGCTTGGATCTCTTGAAGCTGTGACCTGCAT 2776
QY 661 GTGATGCTTTGGACCAAGCAACCTCAAGCAAAATGACCAAGCCCATGATATCTTCGACA 720
Db 2777 GTGATGCTTTGGACCAAGCAACCTCAAGCAAAATGACCAAGCCCATGATATCTTCGACA 2836
QY 721 TTATTATTGTTTGACCACTATTATGACCGCTGGAGCAAGACACAATTTGGTCA 780
Db 2837 TTATTATTGTTTGACCACTATTATGACCGCTGGAGCAAGACACAATTTGGTCA 2896
QY 781 ACGTCCCTCTCTGCGTGAGATATGTCTGAACTGGCTGCTGAATGTTATGATACGGGAC 840
Db 2897 ACGTCCCTCTCTGCGTGAGATATGTCTGAACTGGCTGCTGAATGTTATGATACGGGAC 2956
QY 841 GAACAGGGAGGATCCGTGTCTCTTTAAACTGGCATCATTTCCCTGTGTAAGCAC 900
Db 2957 GAACAGGGAGGATCCGTGTCTCTTTAAACTGGCATCATTTCCCTGTGTAAGCAC 3016
QY 901 ATTTGAAGACAAGTACAGATACCTTTTCAAGCAAGTGGCAAGTTTCAACAGATTTTGTG 960
Db 3017 ATTTGAAGACAAGTACAGATACCTTTTCAAGCAAGTGGCAAGTTTCAACAGATTTTGTG 3076
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QY	961	ACCAGCGCAGGCTGGGCTCTTCTGCATGATTTCTATCCAAATTCCAAGACAGTTGGGTG	1020
Db	3077	ACCAGCGCAGGCTGGGCTCTTCTGCATGATTTCTATCCAAATTCCAAGACAGTTGGGTG	3136
QY	1021	AAGTGCATCCTTTGGGGCAGTAACATTGAGCCCAAGTGTCCGAGCTGCTTCCAATTTG	1080
Db	3137	AAGTGCATCCTTTGGGGCAGTAACATTGAGCCCAAGTGTCCGAGCTGCTTCCAATTTG	3196
QY	1081	CTAATATAAGCCAGAGATCGAAGCGGCCCTCTTCTAGACTGATGAGACTGGAACCC	1140
Db	3197	CTAATATAAGCCAGAGATCGAAGCGGCCCTCTTCTAGACTGATGAGACTGGAACCC	3256
QY	1141	AGTCCATGGTGTGGCTGCCCGTCTGCACAGAGTGGCTGTCAGAACTGCCAAGCATC	1200
Db	3257	AGTCCATGGTGTGGCTGCCCGTCTGCACAGAGTGGCTGTCAGAACTGCCAAGCATC	3316
QY	1201	AGGCCAAATGTAAACATCTGCAAAAGAGTGTCCAATCATTTGATTCAGGTACAGAGTCTAA	1260
Db	3317	AGGCCAAATGTAAACATCTGCAAAAGAGTGTCCAATCATTTGATTCAGGTACAGAGTCTAA	3376
QY	1261	AGCACTTTAATTATGACATCTGCCAAAGCTGCTTTTCTGTGTCGAGTTGCAAAAGGCC	1320
Db	3377	AGCACTTTAATTATGACATCTGCCAAAGCTGCTTTTCTGTGTCGAGTTGCAAAAGGCC	3436
QY	1321	ATPAAATGCACCTATCCCACTGGTGAATATTGCACCTCCGACTACATCAGGAGAAGATGTC	1380
Db	3437	ATPAAATGCACCTATCCCACTGGTGAATATTGCACCTCCGACTACATCAGGAGAAGATGTC	3496
QY	1381	GAGACTTTGCCAAGGTACTAAAACCAATTTGCAACCAAAAGTATTTTGCGAAGCATC	1440
Db	3497	GAGACTTTGCCAAGGTACTAAAACCAATTTGCAACCAAAAGTATTTTGCGAAGCATC	3556
QY	1441	CCCGAATGGGCTACCTGCGCAGTGCAGACTGTCTTAGAGGGGGACAACATGGAATCCCG	1500
Db	3557	CCCGAATGGGCTACCTGCGCAGTGCAGACTGTCTTAGAGGGGGACAACATGGAATCCCG	3616

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RESULT 14
US-09-949-016-2823
; Sequence 2823, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949, 016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2823
;
; LENGTH: 7141
;
; TYPE: DNA
;
; ORGANISM: Human
US-09-949-016-2823

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Query Match	99.8%	Score 1498.4	DB 4	Length 7141
Best Local Similarity	99.9%	Pred. No. 0		
Matches 1499, Conservative	0	Mismatches 1	Indels 0	Gaps 0
QY 1 AGTCAATACTGAGTGGGAAAAATTGAACCTGCACCTCCGCTGACTGGCAGAGAAAAATAG 60				
Db 2117 AGTCAATACTGAGTGGGAAAAATTGAACCTGCACCTCCGCTGACTGGCAGAGAAAAATAG 2176				
QY 61 ATGAGACCCCTTGAAAGACTCCAGGAACCTCAAGAGGCCACGGATGAGCTGGAACCTCAAGC 120				
Db 2177 ATGAGACCCCTTGAAAGACTCCGGGAACTTCAAGAGGCCACGGATGAGCTGGAACCTCAAGC 2236				

[illegible]

Oy	661	GTGATGCCCTTGGACCAGACAACCTCAAGCAAATGACAGCCCATGATATCTGCAGA	720
Db	2777	GTGATGCCCTTGGACCAGACAACCTCAAGCAAATGACAGCCCATGATATCTGCAGA	2836
Oy	721	TTATTAAATGTTTGACCACTATTATGACCGCCTGAGCAAGACAACAATTGGTCA	780
Db	2837	TTATTAAATGTTTGACCACTATTATGACCGCCTGAGCAAGACAACAATTGGTCA	2896
Oy	781	ACGTCCCTCTGCGTGATATGTCTGAAC TGCGTCTGAATGTTATGATACGGAC	840
Db	2897	ACGTCCCTCTGCGTGATATGTCTGAAC TGCGTCTGAATGTTATGATACGGAC	2956
Oy	841	GAACAGGAGGATCCGTGTCCTGTTTTAAAAC TGGATCATTTCCCTGTGTAAGCAC	900
Db	2957	GAACAGGAGGATCCGTGTCCTGTTTTAAAAC TGGATCATTTCCCTGTGTAAGCAC	3016
Oy	901	ATTGGAAGACAAGTACAGATACCTTTCAAGCAAGTGGCAAGTTCAACAGATTTTGTG	960
Db	3017	ATTGGAAGACAAGTACAGATACCTTTCAAGCAAGTGGCAAGTTCAACAGATTTTGTG	3076
Oy	961	ACCAGCGCAGGCTGGGCTCCTCTTCATGATTTCTATCCAATTTCCAAGACAGTTGGGTG	1020
Db	3077	ACCAGCGCAGGCTGGGCTCCTCTTCATGATTTCTATCCAATTTCCAAGACAGTTGGGTG	3136
Oy	1021	AAGTTGCATCTTTGGGGCAGTAACATTGAGCCAAAGTGTCCGAGCTGCTTCCAATTGG	1080
Db	3137	AAGTTGCATCTTTGGGGCAGTAACATTGAGCCAAAGTGTCCGAGCTGCTTCCAATTGG	3196
Oy	1081	CTAATAATAAGCCAGAGATCGAAGCGGCCCTCTTCTTAGACTGGATGAGACTGGAACCCC	1140
Db	3197	CTAATAATAAGCCAGAGATCGAAGCGGCCCTCTTCTTAGACTGGATGAGACTGGAACCCC	3256
Oy	1141	AGTCCATGGTGTGGCTGCCCCGTCTGCACACAGAGTGGCTCTGCAGAACTGCGCAAGCATC	1200
Db	3257	AGTCCATGGTGTGGCTGCCCCGTCTGCACACAGAGTGGCTCTGCAGAACTGCGCAAGCATC	3316

QY 1201 AGGCCAATGTAACTCTGCAGAGAGTGTCCAATCATTTGATTGAGTACAGAGAGTCTAA 1260
DB 3317 AGGCCAAATGTAACTCTGCAGAGAGTGTCCAATCATTTGATTGAGTACAGAGAGTCTAA 3376
QY 1261 AGCACTTTAATTATGACATCTGCCAAGCTGCTTTTCTGTCGAGTGTGCAAAAGGCC 1320
DB 3377 AGCACTTTAATTATGACATCTGCCAAGCTGCTTTTCTGTCGAGTGTGCAAAAGGCC 3436
QY 1321 ATAAATGCACTATCCCATGTGTGAATATTGCACTCCGACTACATCAGAGAGATGTTC 1380
DB 3437 ATAAATGCACTATCCCATGTGTGAATATTGCACTCCGACTACATCAGAGAGATGTTC 3496
QY 1381 GAGACTTTGCCAAGGTACTTAAACAAATTTGAAACCAAAAGTATTTTCCGAAGCATC 1440
DB 3497 GAGACTTTGCCAAGGTACTTAAACAAATTTGAAACCAAAAGTATTTTCCGAAGCATC 3556
QY 1441 CCCGAATGGGCTACCTGCCAGTGCAGACTGTCTTAGAGGGGGAACAATGAAACTCCCG 1500
DB 3557 CCCGAATGGGCTACCTGCCAGTGCAGACTGTCTTAGAGGGGGAACAATGAAACTCCCG 3616

RESULT 15
US-09-949-016-2824
; Sequence 2824, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2824
; LENGTH: 7141
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-2824

Query Match 99.8%; Score 1498.4; DB 4; Length 7141;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1499; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 AGTCAATACTGAGTGGGAAATTTGAACCTGCACCTCCGCTGACTGGCAGAGAAATAG 60
DB 2117 AGGTCAATACTGAGTGGGAAATTTGAACCTGCACCTCCGCTGACTGGCAGAGAAATAG 2176
QY 61 ATGAGACCTTGAAGAAGCTCCAGAACTTCAAGAGGCCACGGATGAGCTGACCTCAAGC 120
DB 2177 ATGAGACCTTGAAGAAGCTCCGGAAGCTTCAAGAGGCCACGGATGAGCTGACCTCAAGC 2236
QY 121 TGGGCCAAGCTGAGGTGATCAAGGATCTCGCAGCCCCGTGGCGATCTCTCATTTGACT 180
DB 2237 TGGGCCAAGCTGAGGTGATCAAGGATCTCGCAGCCCCGTGGCGATCTCTCATTTGACT 2296
QY 181 CTCTCCAAGATCACCTCGAGAAAGTCAAGGCACTTGAAGAGAAATTTGGCCTCTGAAG 240
DB 2297 CTCTCCAAGATCACCTCGAGAAAGTCAAGGCACTTGAAGAGAAATTTGGCCTCTGAAG 2356
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Job time : 267.233 secs

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GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: March 2, 2005, 06:35:12 ; Search time 897.381 Seconds
(without alignments)
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Title: US-09-845-416-10_COPY_2000_3500

Perfect score: 1501

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Gapop 10.0 , Gapext 1.0

Searched: 5394803 seqs, 2962729879 residues

Total number of hits satisfying chosen parameters: 10789606

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a
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and is derived by analysis of the total score distribution.

SUMMARIES

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1	1501	100.0	1821	10	US-09-845-416-13	Sequence 13, Appl
2	1501	100.0	2169	10	US-09-845-416-4	Sequence 4, Appl
3	1501	100.0	3510	10	US-09-845-416-12	Sequence 12, Appl
4	1501	100.0	3531	10	US-09-845-416-10	Sequence 10, Appl
5	1501	100.0	3858	10	US-09-845-416-9	Sequence 9, Appl
6	1501	100.0	3999	10	US-09-845-416-6	Sequence 6, Appl
7	1501	100.0	4182	10	US-09-845-416-2	Sequence 2, Appl
8	1501	100.0	4476	10	US-09-845-416-31	Sequence 31, Appl
9	1501	100.0	4498	10	US-09-845-416-30	Sequence 30, Appl
10	1501	100.0	4825	10	US-09-845-416-29	Sequence 29, Appl
11	1501	100.0	4848	10	US-09-845-416-35	Sequence 35, Appl

12	1501	100.0	4966	10	US-09-845-416-28	Sequence 28, Appl
13	1501	100.0	4990	10	US-09-845-416-34	Sequence 34, Appl
14	1501	100.0	5060	10	US-09-845-416-36	Sequence 36, Appl
15	1501	100.0	5149	10	US-09-845-416-27	Sequence 27, Appl
16	1501	100.0	5339	17	US-10-149-736-40	Sequence 40, Appl
17	1501	100.0	5462	17	US-10-149-736-41	Sequence 41, Appl
18	1501	100.0	8689	17	US-10-149-736-42	Sequence 42, Appl
19	1501	100.0	11058	10	US-09-845-416-1	Sequence 1, Appl
20	1501	100.0	11443	17	US-10-149-736-44	Sequence 44, Appl
21	1501	100.0	12057	17	US-10-149-736-47	Sequence 47, Appl
22	1501	100.0	13957	9	US-09-782-378A-22	Sequence 22, Appl
23	1501	100.0	13957	9	US-10-149-736-1	Sequence 2284, Ap
24	1501	100.0	13957	17	US-10-149-736-1	Sequence 1, Appl
25	1501	100.0	14069	17	US-10-172-118-434	Sequence 434, App
26	1501	100.0	14069	17	US-10-342-887-434	Sequence 434, App
27	1501	100.0	14082	17	US-10-341-434-108	Sequence 108, App
28	1501	100.0	14082	17	US-10-172-118-981	Sequence 981, App
29	1501	100.0	14082	17	US-10-342-887-981	Sequence 981, App
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31	1417.6	94.4	4414	10	US-09-845-416-32	Sequence 32, Appl
32	1416.6	94.4	5417	17	US-10-149-736-39	Sequence 39, Appl
33	1416	94.3	1434	10	US-09-845-416-15	Sequence 15, Appl
34	1307.4	87.1	13815	17	US-10-149-736-2	Sequence 2, Appl
35	872	58.1	887	17	US-10-149-736-35	Sequence 35, Appl
36	781.2	52.0	10705	17	US-10-152-319A-1598	Sequence 1598, Ap
37	778	51.8	11096	17	US-10-149-736-4	Sequence 4, Appl
38	750.8	50.0	10302	9	US-09-782-378A-23	Sequence 23, Appl
39	750.8	50.0	10302	17	US-10-149-736-3	Sequence 3, Appl
40	742	49.4	16531	15	US-10-101-510-667	Sequence 667, App
41	665.4	44.3	5106	17	US-10-220-120-157	Sequence 157, App
42	324	21.6	324	17	US-10-149-736-33	Sequence 33, Appl
43	216	14.4	216	17	US-10-149-736-34	Sequence 34, Appl
44	114	7.6	114	17	US-10-149-736-45	Sequence 45, Appl
45	92.2	6.1	275	16	US-10-029-386-16813	Sequence 16813, A

ALIGNMENTS

RESULT 1
US-09-845-416-13
; Sequence 13, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845,416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 13
; LENGTH: 1821
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-09-845-416-13

Query Match	100.0%;	Score 1501;	DB 10;	Length 1821;
Best local Similarity	100.0%;	Pred. No. 0;		
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US-09-845-416-4

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; Sequence 4, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845,416
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2001-04-30
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 4
; LENGTH: 2169
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-4
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Db 2151 G 2151

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; Sequence 12, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: DEL142
; CURRENT APPLICATION NUMBER: US/09/845,416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 12
; LENGTH: 3510
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-12

Query Match 100.0%; Score 1501; DB 10; Length 3510;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1501; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TTCTACGAAAGCAGGCTGAGGAGGTCAATACTGAGTGGGAAAAATTGAACCTGCACCTCCG 60
Db 1979 TTCTACGAAAGCAGGCTGAGGAGGTCAATACTGAGTGGGAAAAATTGAACCTGCACCTCCG 2038
Qy 61 CTGACTGGCAGAGAAAAATAGATGAGACCCTTGAAAGACTCCAGAACTTCAAGAGGCCA 120
Db 2039 CTGACTGGCAGAGAAAAATAGATGAGACCCTTGAAAGACTCCAGAACTTCAAGAGGCCA 2098
Qy 121 CGATGAGCTGGAACCTCAAGCTGCGCCAAAGCTGAGGTGATCAAGGATCCTGGCAGCCCG 180
Db 2099 CGATGAGCTGGAACCTCAAGCTGCGCCAAAGCTGAGGTGATCAAGGATCCTGGCAGCCCG 2158
Qy 181 TGGGCGATCTCCTCATTGACTCTTCCAAGATCACCTCGAAGATCAAGGCACTTCGAG 240
Db 2159 TGGGCGATCTCCTCATTGACTCTTCCAAGATCACCTCGAAGATCAAGGCACTTCGAG 2218
Qy 241 GAGAAATTGGCCCTCTGAAAGAGAGGTGAGCCACGTCAATGACCTTGCTGCCAGCTTA 300
Db 2219 GAGAAATTGGCCCTCTGAAAGAGAGGTGAGCCACGTCAATGACCTTGCTGCCAGCTTA 2278
Qy 301 CCACCTTGGGCATTTCAAGCTCTCAACGTAATACTCAGCACTCTGGAAGACCTGAACACCA 360
Db 2279 CCACCTTGGGCATTTCAAGCTCTCAACGTAATACTCAGCACTCTGGAAGACCTGAACACCA 2338
Qy 361 GATGGAAGCTTCTGCAGGTGGCCGTGAGGACCGAGTCAAGGCAAGCTGCATGAAGCCACCA 420
Db 2339 GATGGAAGCTTCTGCAGGTGGCCGTGAGGACCGAGTCAAGGCAAGCTGCATGAAGCCACCA 2398
Qy 421 GGAATTTGGTCCAGCATCTCAGCACTTTCTTCCACGCTGTGCCAGGGTCCCTGGGAGA 480
Db 2399 GGAATTTGGTCCAGCATCTCAGCACTTTCTTCCACGCTGTGCCAGGGTCCCTGGGAGA 2458
Qy 481 GAGCCATCTCGCCAAACAAAGTGCCTACTATATCAACCAAGACTCAAAACAACTTGCT 540
Db 2459 GAGCCATCTCGCCAAACAAAGTGCCTACTATATCAACCAAGACTCAAAACAACTTGCT 2518
Qy 541 GGGACCATCCCAAATGACAGAGCTTACCAAGTCTTTAGCTGAGCTGAATAATGTCAAGT 600
Db 2519 GGGACCATCCCAAATGACAGAGCTTACCAAGTCTTTAGCTGAGCTGAATAATGTCAAGT 2578
Qy 601 TCTCAGCTTATAGGACTGCCATGAACCTCCGAAGACTGCAGAAAGCCCTTGCTTGATC 660

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Db 2579 TCTCAGCTTATAGACTGCCATGAACTCCGAGACTGCAGAAAGCCCTTTGCTTGATC 2638
QY 661 TCTTGAGCCCTGTCAAGCTGCATGTGATGCCCTTGACCAAGCAACCTCAAGCAAAATGACC 720
Db 2639 TCTTGAGCCCTGTCAAGCTGCATGTGATGCCCTTGACCAAGCAACCTCAAGCAAAATGACC 2698
QY 721 AGCCCATGATATCTCGACAGATTATTAATGTTTGAACCACTATTATGACCGCCTGAGC 780
Db 2699 AGCCCATGATATCTCGACAGATTATTAATGTTTGAACCACTATTATGACCGCCTGAGC 2758
QY 781 AAGAGCACACAATTGTTGTCACAGTCCCTCTCTGCGTGATATGTGTGAACCTGCTGC 840
Db 2759 AAGAGCACACAATTGTTGTCACAGTCCCTCTCTGCGTGATATGTGTGAACCTGCTGC 2818
QY 841 TGAATGTTTATGATACGGGACGAACAGGAGGATCCGTGTCCTGCTTTTAAACTGCGCA 900
Db 2819 TGAATGTTTATGATACGGGACGAACAGGAGGATCCGTGTCCTGCTTTTAAACTGCGCA 2878
QY 901 TCATTTCCCTGTGTAAAGCACATTTGGAAGACAAGTACAGATACCTTTTCAAGCAAGTGG 960
Db 2879 TCATTTCCCTGTGTAAAGCACATTTGGAAGACAAGTACAGATACCTTTTCAAGCAAGTGG 2938
QY 961 CAAGTTCAACAGGATTTTGTGACACGCGAGGCTGGGCTCTCTTGATGATTTCTATCC 1020
Db 2939 CAAGTTCAACAGGATTTTGTGACACGCGAGGCTGGGCTCTCTTGATGATTTCTATCC 2998
QY 1021 AAATTTCCAAGACAGTGGGTGAAGTTGCATCCTTTGGGGGCAAGTAAACATTTAGCCCAAGTG 1080
Db 2999 AAATTTCCAAGACAGTGGGTGAAGTTGCATCCTTTGGGGGCAAGTAAACATTTAGCCCAAGTG 3058
QY 1081 TCCGGAGCTGCTTCCAATTTGCTAATATTAAGCCAGAGATCGAAGCGGCCCTTCTCCTAG 1140
Db 3059 TCCGGAGCTGCTTCCAATTTGCTAATATTAAGCCAGAGATCGAAGCGGCCCTTCTCCTAG 3118
QY 1141 ACTGATGAGACTGGAACCCCAAGTCCATGTGTGCTGCCCCGTCTGCAAGAGTGCTG 1200
Db 3119 ACTGATGAGACTGGAACCCCAAGTCCATGTGTGCTGCCCCGTCTGCAAGAGTGCTG 3178
QY 1201 CTGCAGAAACTGCGCAAGCATCAGGCCCAATGTAAATCTGCAAAAGAGTGTCCATCATTTG 1260
Db 3179 CTGCAGAAACTGCGCAAGCATCAGGCCCAATGTAAATCTGCAAAAGAGTGTCCATCATTTG 3238
QY 1261 GATTCAAGGTACAGAGTCTAAAGCATTTAATATGACATCTGCCAAAGCTGCTTTT 1320
Db 3239 GATTCAAGGTACAGAGTCTAAAGCATTTAATATGACATCTGCCAAAGCTGCTTTT 3298
QY 1321 CTGGTCGAGTTGCAAAAAGGCCATAAATGCACTATCCCATGTGTGAATATTGCACTCCGA 1380
Db 3299 CTGGTCGAGTTGCAAAAAGGCCATAAATGCACTATCCCATGTGTGAATATTGCACTCCGA 3358
QY 1381 CTACATCAGAGAAAGATGTTGAGACTTTGCCAAGGTAATAAACAATTTGCAACCA 1440
Db 3359 CTACATCAGAGAAAGATGTTGAGACTTTGCCAAGGTAATAAACAATTTGCAACCA 3418
QY 1441 AAAGGTATTTTGGGAAGCATCCCGCAATGGGCTACCTGCGAGTGCAAGCTGTCTTAGAGG 1500
Db 3419 AAAGGTATTTTGGGAAGCATCCCGCAATGGGCTACCTGCGAGTGCAAGCTGTCTTAGAGG 3478
QY 1501 G 1501
Db 3479 G 3479
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RESULT 4

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US-09-845-416-10
; Sequence 10, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: DE1142
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; CURRENT APPLICATION NUMBER: US/09/845,416
; PRIOR FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 10
; LENGTH: 3531
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-10
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Query Match 100.0%; Score 1501; DB 10; Length 3531;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1501; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY 1 TTCTACGAAGCAGGCTGAGGAGTCAATCTGAGTGGGAAAAATTGAACCTGCACTCCG 60
Db 2000 TTCTACGAAGCAGGCTGAGGAGTCAATCTGAGTGGGAAAAATTGAACCTGCACTCCG 2059
QY 61 CTGACTGGCAGAGAAAAATAGATGAGACCCCTTGAAAGACTCCAGAACTTCAAGAGCCA 120
Db 2060 CTGACTGGCAGAGAAAAATAGATGAGACCCCTTGAAAGACTCCAGAACTTCAAGAGCCA 2119
QY 121 CGGATGAGCTGGACCTCAAGCTGCGCCCAAGCTGAGGTGATCAAGGATCCTGGACCCCG 180
Db 2120 CGGATGAGCTGGACCTCAAGCTGCGCCCAAGCTGAGGTGATCAAGGATCCTGGACCCCG 2179
QY 181 TGGGGGATCTCCTCATTTGACTCTCTCCAAGATCACTCGAGAAAGTCAAGGCACTTCGAG 240
Db 2180 TGGGGGATCTCCTCATTTGACTCTCTCCAAGATCACTCGAGAAAGTCAAGGCACTTCGAG 2239
QY 241 GAGAAATTCGGCTCTGAAAGAGAAAGCTGAGCCACGTCAATGACCTTGCTCGCCAGCTTA 300
Db 2240 GAGAAATTCGGCTCTGAAAGAGAAAGCTGAGCCACGTCAATGACCTTGCTCGCCAGCTTA 2299
QY 301 CCACTTTGGGCAATTCAGCTCTCACCGTAAACCTCAGCACTCTGGAAGACCTGAACACCA 360
Db 2300 CCACTTTGGGCAATTCAGCTCTCACCGTAAACCTCAGCACTCTGGAAGACCTGAACACCA 2359
QY 361 GATGAAAGCTTCTGCAAGGTGGCCGTGAGGACCGAGTCAAGCAGCTGCATGAAGCCACA 420
Db 2360 GATGAAAGCTTCTGCAAGGTGGCCGTGAGGACCGAGTCAAGCAGCTGCATGAAGCCACA 2419
QY 421 GGGACTTTGGTCCAGCATCTCAGCACTTTCTTCCACGTCTGTCCAGGGTCCCTGGAGA 480
Db 2420 GGGACTTTGGTCCAGCATCTCAGCACTTTCTTCCACGTCTGTCCAGGGTCCCTGGAGA 2479
QY 481 GAGCCATCTGCCAAACAAAGTGCCCTACTATATCAACCAAGAGACTCAAAACAATTGCT 540
Db 2480 GAGCCATCTGCCAAACAAAGTGCCCTACTATATCAACCAAGAGACTCAAAACAATTGCT 2539
QY 541 GGGACCATCCCAAAATGACAGAGCTCTAACAGTCTTTAGCTGACCTGAATATGTGAGAT 600
Db 2540 GGGACCATCCCAAAATGACAGAGCTCTAACAGTCTTTAGCTGACCTGAATATGTGAGAT 2599
QY 601 TCTCAGCTTATAGACTGCGCATGAAACTCCGAAAGCTGCAAGAGGCCCTTTGCTTGATC 660
Db 2600 TCTCAGCTTATAGACTGCGCATGAAACTCCGAAAGCTGCAAGAGGCCCTTTGCTTGATC 2659
QY 661 TCTTGAGCCCTGTCAAGCTGCATGTGATGCCCTTGAGACGACCAACCTCAAGCAAAATGACC 720
Db 2660 TCTTGAGCCCTGTCAAGCTGCATGTGATGCCCTTGAGACGACCAACCTCAAGCAAAATGACC 2719
QY 721 AGCCCATGATATCTCGACAGATTATTAATGTTTGAACCACTATTATGACCGCCTGAGC 780
Db 2720 AGCCCATGATATCTCGACAGATTATTAATGTTTGAACCACTATTATGACCGCCTGAGC 2779
QY 781 AAGAGCACACAATTGTTGTCACAGTCCCTCTCTGCGTGATATGTGTGAACCTGCTGC 840
Db 2780 AAGAGCACACAATTGTTGTCACAGTCCCTCTCTGCGTGATATGTGTGAACCTGCTGC 2839
QY 841 TGAATGTTTATGATACGGGACGAACAGGAGGATCCGTGTCCTGCTTTTAAACTGCGCA 900
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Db      2840 TGAATGTTATGATTAACGGAGCAAGGAGAGATCCGTGTCCTGCTTTTAAACTGGCA 2899
Qy      901 TCATTTCCCTGTGTAAAGCACATTTGGAGACAAGTACAGATACCTTTTCAAGCAAGTGG 960
Db      2900 TCATTTCCCTGTGTAAAGCACATTTGGAGACAAGTACAGATACCTTTTCAAGCAAGTGG 2959
Qy      961 CAAGTTCAACAGGATTTTGTGACCAAGCGAGGCTGGGCTCCTTTCGATGATTTCTATCC 1020
Db      2960 CAAGTTCAACAGGATTTTGTGACCAAGCGAGGCTGGGCTCCTTTCGATGATTTCTATCC 3019
Qy      1021 AAATTCACAGACAGTTGGGTGAAGTTGATCCTTTGGGGCAGTAACATTGAGCCAAAGTG 1080
Db      3020 AAATTCACAGACAGTTGGGTGAAGTTGATCCTTTGGGGCAGTAACATTGAGCCAAAGTG 3079
Qy      1081 TCCGAGCTGCTTCCCAATTTGCTAATAATAAGCCAGAGATCGAAGCGGCCCTTCCCTAG 1140
Db      3080 TCCGAGCTGCTTCCCAATTTGCTAATAATAAGCCAGAGATCGAAGCGGCCCTTCCCTAG 3139
Qy      1141 ACTGATGACACTGGAACCCCAAGTCCATGCTGGCTGCCCGTCCCTGACAGAGTGCGTG 1200
Db      3140 ACTGATGACACTGGAACCCCAAGTCCATGCTGGCTGCCCGTCCCTGACAGAGTGCGTG 3199
Qy      1201 CTGCAGAACTGCCAAGCATCAGGCCAAAATGTAACATCTGCAAAAGAGTGTCCAATCATTTG 1260
Db      3200 CTGCAGAACTGCCAAGCATCAGGCCAAAATGTAACATCTGCAAAAGAGTGTCCAATCATTTG 3259
Qy      1261 GATTCAGTACAGAGAGTCTAAAGCACTTAATATGACATCTGCCAAAGCTGCTTTTCTT 1320
Db      3260 GATTCAGTACAGAGAGTCTAAAGCACTTAATATGACATCTGCCAAAGCTGCTTTTCTT 3319
Qy      1321 CTGCTCGAGTTGCCAAAAGGCCATAAAATGCACTATCCCATGCTGAATATTCACACTCGA 1380
Db      3320 CTGCTCGAGTTGCCAAAAGGCCATAAAATGCACTATCCCATGCTGAATATTCACACTCGA 3379
Qy      1381 CTACATCAGAGAGAAGATGTTGAGACTTTGCCAAGGTACTAAAAACAATTTGCAACCA 1440
Db      3380 CTACATCAGAGAGAAGATGTTGAGACTTTGCCAAGGTACTAAAAACAATTTGCAACCA 3439
Qy      1441 AAAGGTAATTTTGGGAAGCATCCCCGAATGGGCTACCTGCCAGTGCAGACTGTCTTAGAGG 1500
Db      3440 AAAGGTAATTTTGGGAAGCATCCCCGAATGGGCTACCTGCCAGTGCAGACTGTCTTAGAGG 3499
Qy      1501 G 1501
Db      3500 G 3500
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RESULT 5
US-09-845-416-9
; Sequence 9, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845,416
; PRIOR FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 9
; LENGTH: 3858
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-9
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Query Match      100.0%; Score 1501; DB 10; Length 3858;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1501; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Qy      1 TTCTACGAAGCAGGCTGAGAGGTCAATACTGAGTGGGAAAAATTGAACCTGCACCTCCG 60
Db      2327 TTCTACGAAGCAGGCTGAGAGGTCAATACTGAGTGGGAAAAATTGAACCTGCACCTCCG 2386
Qy      61 CTGACTGGCAGAGAAAAATAGATGAGACCTTGAAGAAGCTCCAGAACTTCAAGAGGCCA 120
Db      2387 CTGACTGGCAGAGAAAAATAGATGAGACCTTGAAGAAGCTCCAGAACTTCAAGAGGCCA 2446
Qy      121 CGGATGAGTGAACCTCAAGCTGGCCGAAGCTGAGGTGATCAAGGGATCCTGGACGCCG 180
Db      2447 CGGATGAGTGAACCTCAAGCTGGCCGAAGCTGAGGTGATCAAGGGATCCTGGACGCCG 2506
Qy      181 TGGCGGATCTCTCATTTGACTCTCTCCAAGATCACTCGAAGAAAGTCAAGGCACTTCGAG 240
Db      2507 TGGCGGATCTCTCATTTGACTCTCTCCAAGATCACTCGAAGAAAGTCAAGGCACTTCGAG 2566
Qy      241 GAGAAATGGGCTCTGAAAGAGAACGTGAGCCACGTCATGACCTTGTCCGACGCTTA 300
Db      2567 GAGAAATGGGCTCTGAAAGAGAACGTGAGCCACGTCATGACCTTGTCCGACGCTTA 2626
Qy      301 CCACCTTGGGCAATTCAAGCTCTCAACCGTATAAAGCTCAGACATCTGGAAGACCTGAACACCA 360
Db      2627 CCACCTTGGGCAATTCAAGCTCTCAACCGTATAAAGCTCAGACATCTGGAAGACCTGAACACCA 2686
Qy      361 GATGAAGCTTCTGACAGTGAGCGCGTGAAGACCGAGTCAAGGCACTGATGAAGCCACCA 420
Db      2687 GATGAAGCTTCTGACAGTGAGCGCGTGAAGACCGAGTCAAGGCACTGATGAAGCCACCA 2746
Qy      421 GGGACTTTGGTCCAGCATCTCAGCACTTCTTCCACGCTGTGTCCAGGGTCCCTGGGAGA 480
Db      2747 GGGACTTTGGTCCAGCATCTCAGCACTTCTTCCACGCTGTGTCCAGGGTCCCTGGGAGA 2806
Qy      481 GAGCCATCTGCGCCAAACAAAGTGCCCTAATAATCAACCAAGCACTCAAACTGCT 540
Db      2807 GAGCCATCTGCGCCAAACAAAGTGCCCTAATAATCAACCAAGCACTCAAACTGCT 2866
Qy      541 GGGACCATCCAAATGACAGAGCTCTACAGTCTTTAGCTGACCTGAATAATGTCAGAT 600
Db      2867 GGGACCATCCAAATGACAGAGCTCTACAGTCTTTAGCTGACCTGAATAATGTCAGAT 2926
Qy      601 TCTCAGCTTATAGACTGCCATGAAGCTCCGAAGACTGCAGAAAGCCCTTGTGCTGATC 660
Db      2927 TCTCAGCTTATAGACTGCCATGAAGCTCCGAAGACTGCAGAAAGCCCTTGTGCTGATC 2986
Qy      661 TCTTGAGCTGTACAGCTGCATGTGATGCTTGGACCAAGCAAACTCAAGCAAAATGACC 720
Db      2987 TCTTGAGCTGTACAGCTGCATGTGATGCTTGGACCAAGCAAACTCAAGCAAAATGACC 3046
Qy      721 AGCCCATGATATCTCTGACAGATTATTAATTGTTGACCACTATTTATGACCGCCTGAGC 780
Db      3047 AGCCCATGATATCTCTGACAGATTATTAATTGTTGACCACTATTTATGACCGCCTGAGC 3106
Qy      781 AAGAGCACAAATTTGGTCAACGTCCTCTCTGCGTGAATATGTCTGAACCTGGCTGC 840
Db      3107 AAGAGCACAAATTTGGTCAACGTCCTCTCTGCGTGAATATGTCTGAACCTGGCTGC 3166
Qy      841 TGAATGTTATGATACGGAGCAAGGAGGATCCGTGCTCTGCTTTTAAACTGGCA 900
Db      3167 TGAATGTTATGATACGGAGCAAGGAGGATCCGTGCTCTGCTTTTAAACTGGCA 3226
Qy      901 TCATTTCCCTGTGTAAAGCACATTTGGAGACAAGTACAGATACCTTTCAAGCAAGTGG 960
Db      3227 TCATTTCCCTGTGTAAAGCACATTTGGAGACAAGTACAGATACCTTTCAAGCAAGTGG 3286
Qy      961 CAAGTTCAACAGGATTTTGTGACCAAGCGCAAGGCTGGGCTCCTTTCGATGATTTCTATCC 1020
Db      3287 CAAGTTCAACAGGATTTTGTGACCAAGCGCAAGGCTGGGCTCCTTTCGATGATTTCTATCC 3346
Qy      1021 AAATTCACAGACAGTTGGGTGAAGTTGATCCTTTGGGGCAGTAACATTGAGCCAAAGTG 1080
Db      3347 AAATTCACAGACAGTTGGGTGAAGTTGATCCTTTGGGGCAGTAACATTGAGCCAAAGTG 3406
Qy      1081 TCCGAGCTGCTTCCCAATTTGCTAATAATAAGCCAGAGATCGAAGCGGCCCTTCCCTAG 1140
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Db 3407 TCCGAGCTGCTTCCAAATTGCTATAATAAGCCAGATCGAAGCGGCTCTTCTCTAG 3466
QY 1141 ACTGATGAGACTGGAACCCAGTCCATGTTGGCTGCCCGTCTTGACAAGAGTGGCTG 1200
Db 3467 ACTGATGAGACTGGAACCCAGTCCATGTTGGCTGCCCGTCTTGACAAGAGTGGCTG 3526
QY 1201 CTGCAGAACTGCCAAGCATCAGGCCAATGTAAACATCTGCAAAAGAGTGTCCAATCATG 1260
Db 3527 CTGCAGAACTGCCAAGCATCAGGCCAATGTAAACATCTGCAAAAGAGTGTCCAATCATG 3586
QY 1261 GATTCAAGTACAGAGTCTAAAGCACTTTAATTATGACATCTGCCAAAGCTGCTTTT 1320
Db 3587 GATTCAAGTACAGAGTCTAAAGCACTTTAATTATGACATCTGCCAAAGCTGCTTTT 3646
QY 1321 CTGTCGAGTTGCCAAAAGGCCATAAATGCACTATCCCATGTTGGAATATTGCACTCCGA 1380
Db 3647 CTGTCGAGTTGCCAAAAGGCCATAAATGCACTATCCCATGTTGGAATATTGCACTCCGA 3706
QY 1381 CTACATCAGAGAAAGATGTTGCGAGCTTTGCCAAGGTACTAAACAAATTTGCAACCA 1440
Db 3707 CTACATCAGAGAAAGATGTTGCGAGCTTTGCCAAGGTACTAAACAAATTTGCAACCA 3766
QY 1441 AAAGGATTTTTCGGAAGCATCCCCGAATGGGCTACCTGCCAGTGCAGACTGCTTAGAGG 1500
Db 3767 AAAGGATTTTTCGGAAGCATCCCCGAATGGGCTACCTGCCAGTGCAGACTGCTTAGAGG 3826
QY 1501 G 1501
Db 3827 G 3827

RESULT 6
US-09-845-416-6
; Sequence 6, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845,416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 6
; LENGTH: 3999
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-6

Query Match 100.0%; Score 1501; DB 10; Length 3999;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1501; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TTCTACGAAAGCAGGCTGAGGAGGTCAATACTAGTGGGAAAAATTGAACCTGCACTCCG 60
Db 2468 TTCTACGAAAGCAGGCTGAGGAGGTCAATACTAGTGGGAAAAATTGAACCTGCACTCCG 2527
QY 61 CTGACTGCGCAGAGAAAAATAGATGAGACCCTTGAAAGACTCCAGGAACCTCAAGAGGCCA 120
Db 2528 CTGACTGCGCAGAGAAAAATAGATGAGACCCTTGAAAGACTCCAGGAACCTCAAGAGGCCA 2587
QY 121 CGGATGAGCTGGACCTCAAGCTGCGCCAAAGCTGAGGTGATCAAGGATCCGCGAGCCCG 180
Db 2588 CGGATGAGCTGGACCTCAAGCTGCGCCAAAGCTGAGGTGATCAAGGATCCGCGAGCCCG 2647
QY 181 TGGGCGATCTCCTCATTTGACTCTCTCCAAAGATCACTCGAAGAACTCAAGGCACTTCGAG 240
Db 2648 TGGGCGATCTCCTCATTTGACTCTCTCCAAAGATCACTCGAAGAACTCAAGGCACTTCGAG 2707

QY 241 GAGAAATTGCGCCTCTGAAAGAGAACGTGAGCCACGTCAATGACCTTGTCCGCACTTA 300
Db 2708 GAGAAATTGCGCCTCTGAAAGAGAACGTGAGCCACGTCAATGACCTTGTCCGCACTTA 2767
QY 301 CCACTTTGGGCAATTCAGCTCTCACCCGTATTAACCTCAGCACTCTGGAAACCTGAAACACCA 360
Db 2768 CCACTTTGGGCAATTCAGCTCTCACCCGTATTAACCTCAGCACTCTGGAAACCTGAAACACCA 2827
QY 361 GATGGAAGCTTCTGCAGGTGGCCGTGAGAGACCGAGTCAAGGCACTGCATGAAGCCACACA 420
Db 2828 GATGGAAGCTTCTGCAGGTGGCCGTGAGAGACCGAGTCAAGGCACTGCATGAAGCCACACA 2887
QY 421 GGGACTTTGGTCCAGCATCTCAGCACTTTCTTCCACGCTGTGTCCAGGGTCCCTGGAGAGA 480
Db 2888 GGGACTTTGGTCCAGCATCTCAGCACTTTCTTCCACGCTGTGTCCAGGGTCCCTGGAGAGA 2947
QY 481 GAGCCATCTGCGCCAAACAAAGTGCCCTACTATATCAACCAAGAGACTCAAAACAACTTGCT 540
Db 2948 GAGCCATCTGCGCCAAACAAAGTGCCCTACTATATCAACCAAGAGACTCAAAACAACTTGCT 3007
QY 541 GGGACCATCCCAAAATGACAGAGCTCTACAGTCTTTAGCTGACCTGAATAATGTCAAGAT 600
Db 3008 GGGACCATCCCAAAATGACAGAGCTCTACAGTCTTTAGCTGACCTGAATAATGTCAAGAT 3067
QY 601 TCTCAGCTTATAGAGACTGCCATGAAACTCCGAAGACTGCAGAAAGCCCTTGTGCTGATC 660
Db 3068 TCTCAGCTTATAGAGACTGCCATGAAACTCCGAAGACTGCAGAAAGCCCTTGTGCTGATC 3127
QY 661 TCTTGAGCCTGTGACGTGATGTGATGCTTGAGACCAACCACTCAAGCAAAATGACC 720
Db 3128 TCTTGAGCCTGTGACGTGATGTGATGCTTGAGACCAACCACTCAAGCAAAATGACC 3187
QY 721 AGCCCATGATATCTCGAGATTATTAATGTTGACCACTATTATGACCGCCTGGAGC 780
Db 3188 AGCCCATGATATCTCGAGATTATTAATGTTGACCACTATTATGACCGCCTGGAGC 3247
QY 781 AAGAGCAACAATTTGGTCAACGTCCTCTGCTGCTGGATATGTTGAACTGGCTGC 840
Db 3248 AAGAGCAACAATTTGGTCAACGTCCTCTGCTGCTGGATATGTTGAACTGGCTGC 3307
QY 841 TGAATGTTATGATACGGGACGAACAGGAGGATCCGTGCTGCTTTTAAACTGGCA 900
Db 3308 TGAATGTTATGATACGGGACGAACAGGAGGATCCGTGCTGCTTTTAAACTGGCA 3367
QY 901 TCATTTCCCTGTGTAAAGCACATTTGGAGACAAGTACAGATACCTTTTCAAGCAAGTGG 960
Db 3368 TCATTTCCCTGTGTAAAGCACATTTGGAGACAAGTACAGATACCTTTTCAAGCAAGTGG 3427
QY 961 CAAGTTCAACAGGATTTTGTGACCAAGCCAGGCTGGGCTCTTCTGCATGATTTCTATCC 1020
Db 3428 CAAGTTCAACAGGATTTTGTGACCAAGCCAGGCTGGGCTCTTCTGCATGATTTCTATCC 3487
QY 1021 AAATTCACAGACAGTTGGGTGAAGTTGCATCCTTTGGGGGCACTAACATTGAGCCAAAGTG 1080
Db 3488 AAATTCACAGACAGTTGGGTGAAGTTGCATCCTTTGGGGGCACTAACATTGAGCCAAAGTG 3547
QY 1081 TCCGAGCTCTTCCAAATTTGCTAATAATTAAGCCAGAGATCGAAGCGGCTCTTCTCTAG 1140
Db 3548 TCCGAGCTCTTCCAAATTTGCTAATAATTAAGCCAGAGATCGAAGCGGCTCTTCTCTAG 3607
QY 1141 ACTGATGAGACTGGAACCCCAAGTCCATGTGTGCTGCCCCCTCTGCACAGAGTGGCTG 1200
Db 3608 ACTGATGAGACTGGAACCCCAAGTCCATGTGTGCTGCCCCCTCTGCACAGAGTGGCTG 3667
QY 1201 CTGCAGAACTGCCAAGCATCAGGCCAAATGTAAACATCTGCAAAAGAGTGTCCAATCATTG 1260
Db 3668 CTGCAGAACTGCCAAGCATCAGGCCAAATGTAAACATCTGCAAAAGAGTGTCCAATCATTG 3727
QY 1261 GATTCAAGTACAGAGTCTAAAGCACTTTAATTATGACATCTGCCAAAGCTGCTTTT 1320
Db 3728 GATTCAAGTACAGAGTCTAAAGCACTTTAATTATGACATCTGCCAAAGCTGCTTTT 3787
QY 1321 CTGTCGAGTTGCCAAAAGGCCATAAATGCACTATCCCATGTTGAAATATTGCACTCCGA 1380

Db 3788 CTGTCGAGTTGCAAAAAGCCATAAATGCACTATCCCATGGTGAATATTTGCACTCCGA 3847
Qy 1381 CTACATCAGAGAGAAGATGTTGAGACTTTGCCAAGTACTAAAAACAATTTGGAACCA 1440
Db 3848 CTACATCAGAGAGAAGATGTTGAGACTTTGCCAAGTACTAAAAACAATTTGGAACCA 3907
Qy 1441 AAAGGTATTTTGGCAAGCATCCCCGAATGGGCTACCTGCCAGTGCAGACTGTCTTAGAGG 1500
Db 3908 AAAGGTATTTTGGCAAGCATCCCCGAATGGGCTACCTGCCAGTGCAGACTGTCTTAGAGG 3967
Qy 1501 G 1501
Db 3968 G 3968

RESULT 7

US-09-845-416-2
; Sequence 2, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845,416
; PRIOR FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 4182
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-09-845-416-2

Query Match 100.0%; Score 1501; DB 10; Length 4182;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1501; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TTCTACGAAAAGCAGGCTGAGGAGTCAATACTAGTGGAAAAATTGAACCTGCACCTCCG 60
Db 2651 TTCTACGAAAAGCAGGCTGAGGAGTCAATACTAGTGGAAAAATTGAACCTGCACCTCCG 2710
Qy 61 CTGACTGCGACAGAAAAATAGATGAGACCTTGAAGACTCCAGAACTTCAAGAGGCCA 120
Db 2711 CTGACTGCGACAGAAAAATAGATGAGACCTTGAAGACTCCAGAACTTCAAGAGGCCA 2770
Qy 121 CGGATGAGCTGAGACCTCAAGCTGGCCAGCTGAGGTGATCAAGGATCCTGGCAGCCCG 180
Db 2771 CGGATGAGCTGAGACCTCAAGCTGGCCAGCTGAGGTGATCAAGGATCCTGGCAGCCCG 2830
Qy 181 TGGGCGATCTCCTCATTTGACTCTCTCCAAGATCACTCGAGAAAGTCAAGGCACTTCGAG 240
Db 2831 TGGGCGATCTCCTCATTTGACTCTCTCCAAGATCACTCGAGAAAGTCAAGGCACTTCGAG 2890
Qy 241 GAGAAATTGCGCCTCTGAAAAGAGAACGTGAGCCACGTCAATGACCTTGCTGCCAGCTTA 300
Db 2891 GAGAAATTGCGCCTCTGAAAAGAGAACGTGAGCCACGTCAATGACCTTGCTGCCAGCTTA 2950
Qy 301 CCACTTTGGGCAATTCAGCTCTCAACCGTAACTCACTCAGCACTCTGGAAGACCTGAACCCA 360
Db 2951 CCACTTTGGGCAATTCAGCTCTCAACCGTAACTCACTCAGCACTCTGGAAGACCTGAACCCA 3010
Qy 361 GATGGAAGCTTCTGCAAGTGGCCGTGAGGAGCCGAGTCAAGCAGCAGCTGATGAAGCCACA 420
Db 3011 GATGGAAGCTTCTGCAAGTGGCCGTGAGGAGCCGAGTCAAGCAGCAGCTGATGAAGCCACA 3070
Qy 421 GGGACTTTGGTCCAGCATCTCAGCACTTTCTTTCCAGCTCTGTCCAAGGTCCTGGGAGA 480
Db 3071 GGGACTTTGGTCCAGCATCTCAGCACTTTCTTTCCAGCTCTGTGTCCAGGCTCCCTGGGAGA 3130

Qy 481 GAGCCATCTCGCCAAACAAAGTGCCCTTACTATATCAACCAAGAGACTCAAAACAATTGCT 540
Db 3131 GAGCCATCTCGCCAAACAAAGTGCCCTTACTATATCAACCAAGAGACTCAAAACAATTGCT 3190
Qy 541 GGGACCATCCCAAAATGACAGAGCTCTACAGTCTTTAGCTGACGTAATATGTCAAGAT 600
Db 3191 GGGACCATCCCAAAATGACAGAGCTCTACAGTCTTTAGCTGACGTAATATGTCAAGAT 3250
Qy 601 TCTCAGCTTATAGAGCTGCCATGAAGTCCGAAGACTGCAGAAAGCCCTTGCTTGATC 660
Db 3251 TCTCAGCTTATAGAGCTGCCATGAAGTCCGAAGACTGCAGAAAGCCCTTGCTTGATC 3310
Qy 661 TCTTGAGCCTGTCAAGCTGCATGTGATGCTTGGACCAAGCACAACCTCAAGCAAAATGACC 720
Db 3311 TCTTGAGCCTGTCAAGCTGCATGTGATGCTTGGACCAAGCACAACCTCAAGCAAAATGACC 3370
Qy 721 AGCCCATGGATATCTGCGAGATTATTAATTGTTGACCACTATTTATGACCCGCTGAGC 780
Db 3371 AGCCCATGGATATCTGCGAGATTATTAATTGTTGACCACTATTTATGACCCGCTGAGC 3430
Qy 781 AAGAGCAACAATTTGGTCAACGTCCTCTCTGCGTGATATGTCTGAACCTGGCTGC 840
Db 3431 AAGAGCAACAATTTGGTCAACGTCCTCTCTGCGTGATATGTCTGAACCTGGCTGC 3490
Qy 841 TGAATGTTATGATACGGAGCAAGAGAGATCCGTGCTCTGTTTAAACTGCGCA 900
Db 3491 TGAATGTTATGATACGGAGCAAGAGAGATCCGTGCTCTGTTTAAACTGCGCA 3550
Qy 901 TCATTTCCCTGTGTAAAGCACATTTGGAAGACAAAGTACAGATACCTTTTCAAGCAAGTGG 960
Db 3551 TCATTTCCCTGTGTAAAGCACATTTGGAAGACAAAGTACAGATACCTTTTCAAGCAAGTGG 3610
Qy 961 CAAGTTCAACAGGATTTGTGTGACCAAGCGCAGGCTGGGCTCCTTCTGCAATGATTCATCC 1020
Db 3611 CAAGTTCAACAGGATTTGTGTGACCAAGCGCAGGCTGGGCTCCTTCTGCAATGATTCATCC 3670
Qy 1021 AAATTCCAAGACAGTTGGGTGAAGTTGCATCCTTTGGGGGCGAGTAACATTGAGCCAAAGTG 1080
Db 3671 AAATTCCAAGACAGTTGGGTGAAGTTGCATCCTTTGGGGGCGAGTAACATTGAGCCAAAGTG 3730
Qy 1081 TCCGAGCTGCTTCCAAATTTGCTTAATAAAGCCAGAGATCGAAGCGCCCTCTTCCTAG 1140
Db 3731 TCCGAGCTGCTTCCAAATTTGCTTAATAAAGCCAGAGATCGAAGCGCCCTCTTCCTAG 3790
Qy 1141 ACTGATGAGACTGGAACCCAGTCCATGCTGTGCTGCCGTCTGCAAGAGTGGCTG 1200
Db 3791 ACTGATGAGACTGGAACCCAGTCCATGCTGTGCTGCCGTCTGCAAGAGTGGCTG 3850
Qy 1201 CTGCAGAACTGCCAAGCATCAGGCGCAATGTAAACATCTGCAAAAGTGTCCAATCATTTG 1260
Db 3851 CTGCAGAACTGCCAAGCATCAGGCGCAATGTAAACATCTGCAAAAGTGTCCAATCATTTG 3910
Qy 1261 GATTCAAGTACAGAGTCTTAAGCACTTAATTATGACATCTGCCAAAGCTGCTTTT 1320
Db 3911 GATTCAAGTACAGAGTCTTAAGCACTTAATTATGACATCTGCCAAAGCTGCTTTT 3970
Qy 1321 CTGTCGAGTTGCAAAAAGGCCATAAATGCACTATCCCATGGTGAATATGCACTCCGA 1380
Db 3971 CTGTCGAGTTGCAAAAAGGCCATAAATGCACTATCCCATGGTGAATATGCACTCCGA 4030
Qy 1381 CTACATCAGAGAGAAGATGTTGAGACTTTGCCAAGTACTTAATAAACAATTTGGAACCA 1440
Db 4031 CTACATCAGAGAGAAGATGTTGAGACTTTGCCAAGTACTTAATAAACAATTTGGAACCA 4090
Qy 1441 AAAGGTATTTTGGCAAGCATCCCCGAATGGGCTACCTGCCAGTGCAGACTGTCTTAGAGG 1500
Db 4091 AAAGGTATTTTGGCAAGCATCCCCGAATGGGCTACCTGCCAGTGCAGACTGTCTTAGAGG 4150
Qy 1501 G 1501
Db 4151 G 4151

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RESULT 8
US-09-845-416-31
; Sequence 31, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845,416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 31
; LENGTH: 4476
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-31
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Query Match 100.0%; Score 1501; DB 10; Length 4476;

Best Local Similarity 100.0%; Pred. No. 0;

Matches 1501; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 1 TTCTACGAAAGCAGGCTGAGAGGTCATATCTAGTGGGAAAAATTGAACCTGCACCTCCG 60
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Db 2735 TTCTACGAAAGCAGGCTGAGAGGTCATATCTAGTGGGAAAAATTGAACCTGCACCTCCG 2794

QY 61 CTGACTGGCAGAGAAATAGATGAGACCTTGAAAGACTCCAGAACTTCAAGAGGCCA 120
   |||||||
Db 2795 CTGACTGGCAGAGAAATAGATGAGACCTTGAAAGACTCCAGAACTTCAAGAGGCCA 2854

QY 121 CGGATGAGCTGGAAGCTCAAGCTGCGCCAGCTGAGTGATCAAGGATCCTGGCAGCCCG 180
   |||||||
Db 2855 CGGATGAGCTGGAAGCTCAAGCTGCGCCAGCTGAGTGATCAAGGATCCTGGCAGCCCG 2914

QY 181 TGGGCGATCTCTCATTTGACTCTCTCCAAAGATCACTCGAGAAAGTCAAGGCACTTCGAG 240
   |||||||
Db 2915 TGGGCGATCTCTCATTTGACTCTCTCCAAAGATCACTCGAGAAAGTCAAGGCACTTCGAG 2974

QY 241 GAGAAATTGCGCTCTGAAAAGAAAGAGTGAAGCCAGTCAATGACCTTGCTGCGCAGCTTA 300
   |||||||
Db 2975 GAGAAATTGCGCTCTGAAAAGAAAGAGTGAAGCCAGTCAATGACCTTGCTGCGCAGCTTA 3034

QY 301 CCACTTTGGCATTTCAGCTCTCAACCGTATTAACCTCAGCACTCTGGAAGACTGGAACCA 360
   |||||||
Db 3035 CCACTTTGGCATTTCAGCTCTCAACCGTATTAACCTCAGCACTCTGGAAGACTGGAACCA 3094

QY 361 GATGAAGCTTCTGAGGTGGCCGTCGAGACCGAGTCAAGCAGCTGCATGAAGCCCA 420
   |||||||
Db 3095 GATGAAGCTTCTGAGGTGGCCGTCGAGACCGAGTCAAGCAGCTGCATGAAGCCCA 3154

QY 421 GGGACTTTTGGTCCAGCATCTCAGCACTTTCTTCCAGTCTGTCCAGGGTCCCTGGGAGA 480
   |||||||
Db 3155 GGGACTTTTGGTCCAGCATCTCAGCACTTTCTTCCAGTCTGTCCAGGGTCCCTGGGAGA 3214

QY 481 GAGCCATCTCGCCAAACAAGTGCCCTACTATATCAACCAAGAGACTCAAAACAATTGCT 540
   |||||||
Db 3215 GAGCCATCTCGCCAAACAAGTGCCCTACTATATCAACCAAGAGACTCAAAACAATTGCT 3274

QY 541 GGGACCATCCCAAAATGACAGAGCTCTACCAAGTCTTTAGCTGAACCTGAATAATGTGAT 600
   |||||||
Db 3275 GGGACCATCCCAAAATGACAGAGCTCTACCAAGTCTTTAGCTGAACCTGAATAATGTGAT 3334

QY 601 TCTCAGCTTATAGAGCTGCAATGAAGAACTCCGAAGACTGGAAGGCCCTTTGCTTGATC 660
   |||||||
Db 3335 TCTCAGCTTATAGAGCTGCAATGAAGAACTCCGAAGACTGGAAGGCCCTTTGCTTGATC 3394

QY 661 TCTTGAGCCTGTGAGCTGCAATGATGCTTGAGACCAACAACCTCAAGCAAAATGACC 720
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Db 3395 TCTTGAGCCTGTGAGCTGCAATGATGCTTGAGACCAACAACCTCAAGCAAAATGACC 3454
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QY 721 AGCCCATGATATCTCGAGATTATTATTGTTGACCACTATTATGACCGCCTGGAGC 780
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Db 3455 AGCCCATGATATCTCGAGATTATTATTGTTGACCACTATTATGACCGCCTGGAGC 3514

QY 781 AAGAGCAACAATTTGGTCAACGTCCTCTCTGCGTGATATGTGTCTGAAGTGGCTGC 840
   |||||||
Db 3515 AAGAGCAACAATTTGGTCAACGTCCTCTCTGCGTGATATGTGTCTGAAGTGGCTGC 3574

QY 841 TGAATGTTTATGATACGGGACGAACAGGAGATCCGTCTGTCTTTAAACTGGCA 900
   |||||||
Db 3575 TGAATGTTTATGATACGGGACGAACAGGAGATCCGTCTGTCTTTAAACTGGCA 3634

QY 901 TCATTTCCCTGTGTAAGCAATTTGGAAGACAAGTACAGATACCTTTCAAGCAAGTGG 960
   |||||||
Db 3635 TCATTTCCCTGTGTAAGCAATTTGGAAGACAAGTACAGATACCTTTCAAGCAAGTGG 3694

QY 961 CAAGTTCAACAGGATTTTGTGACCAAGCGCAGCGCTGGGCTCTTCTGCATGATTTATCC 1020
   |||||||
Db 3695 CAAGTTCAACAGGATTTTGTGACCAAGCGCAGCGCTGGGCTCTTCTGCATGATTTATCC 3754

QY 1021 AAATTCGAAGACAGTTGGGTGAAGTTGCATCCTTTGGGGCAGTAACATTGAGCCAAGTG 1080
   |||||||
Db 3755 AAATTCGAAGACAGTTGGGTGAAGTTGCATCCTTTGGGGCAGTAACATTGAGCCAAGTG 3814

QY 1081 TCCGGAAGCTGCTTCCAATTTGCTAATTAATGAAGCCAGAGATCGAAGCGGCCCTTCTAG 1140
   |||||||
Db 3815 TCCGGAAGCTGCTTCCAATTTGCTAATTAATGAAGCCAGAGATCGAAGCGGCCCTTCTAG 3874

QY 1141 ACTGATGAGACTGGAACCCCAAGTCCATGTGTGGCTGCCCTCTGACACAGAGTGGCTG 1200
   |||||||
Db 3875 ACTGATGAGACTGGAACCCCAAGTCCATGTGTGGCTGCCCTCTGACACAGAGTGGCTG 3934

QY 1201 CTGAGAACTGCCAAGCATCAGGCCCAATGTAAACATCTGCAAAAGAGTGTCCAATCATTG 1260
   |||||||
Db 3935 CTGAGAACTGCCAAGCATCAGGCCCAATGTAAACATCTGCAAAAGAGTGTCCAATCATTG 3994

QY 1261 GATTCAAGTACAGAGTCTAAAGCACTTAATTATGACATCTGCCAAAGCTGCTTTT 1320
   |||||||
Db 3995 GATTCAAGTACAGAGTCTAAAGCACTTAATTATGACATCTGCCAAAGCTGCTTTT 4054

QY 1321 CTGTCGAGTTGCAAAAAGGCCATTAATGCACTATCCCATGTGTGAATATTGCACTCCGA 1380
   |||||||
Db 4055 CTGTCGAGTTGCAAAAAGGCCATTAATGCACTATCCCATGTGTGAATATTGCACTCCGA 4114

QY 1381 CTACATCAGAGAAAGATGTTGAGACTTTGCCAAGGTACTTAATAAACAATTTGGAACCA 1440
   |||||||
Db 4115 CTACATCAGAGAAAGATGTTGAGACTTTGCCAAGGTACTTAATAAACAATTTGGAACCA 4174

QY 1441 AAAGTATTTTGCGAAGCATCCCGAATGGGCTACCTGCCAGTGAAGACTGCTTAGAGG 1500
   |||||||
Db 4175 AAAGTATTTTGCGAAGCATCCCGAATGGGCTACCTGCCAGTGAAGACTGCTTAGAGG 4234

QY 1501 G 1501
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Db 4235 G 4235
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RESULT 9
US-09-845-416-30
; Sequence 30, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845,416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 30
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/ LENGTH: 4498
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-30

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Query Match      100.0%; Score 1501; DB 10; Length 4498;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 1501; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
  
QY      1 TTCTACGAAAGCAGGCTGAGAGGTCAATAGTGGGAAAAATGAACTGCACTCCG 60  
        |||||||  
Db      2757 TTCTACGAAAGCAGGCTGAGAGGTCAATAGTGGGAAAAATGAACTGCACTCCG 2816  
  
QY      61 CTGACTGGCAGAGAAAATAGATGAGACCTTGAAGACTCCAGAACTTCAAGAGGCCA 120  
        |||||||  
Db      2817 CTGACTGGCAGAGAAAATAGATGAGACCTTGAAGACTCCAGAACTTCAAGAGGCCA 2876  
  
QY      121 CGGATGAGCTGCACTCAAGCTGCCCAAGCTGAGGTGATCAAGGATCCTGGCAGCCCG 180  
        |||||||  
Db      2877 CGGATGAGCTGCACTCAAGCTGCCCAAGCTGAGGTGATCAAGGATCCTGGCAGCCCG 2936  
  
QY      181 TGGGCGATCTCTCATTTGACTCTCTCCAAGATCACTCGAGAAAGTCAAGGCACTTCGAG 240  
        |||||||  
Db      2937 TGGGCGATCTCTCATTTGACTCTCTCCAAGATCACTCGAGAAAGTCAAGGCACTTCGAG 2996  
  
QY      241 GAGAAATTCGCGCTCTGAAAGAGAACGTGAGCCACGTCAATGACCTTGCTGCGCAGCTTA 300  
        |||||||  
Db      2997 GAGAAATTCGCGCTCTGAAAGAGAACGTGAGCCACGTCAATGACCTTGCTGCGCAGCTTA 3056  
  
QY      301 CCACCTTTGGGCAATTCAGCTCTCACCGTATTAACCTCAGCACTCTGGAAGACCTGGAACCA 360  
        |||||||  
Db      3057 CCACCTTTGGGCAATTCAGCTCTCACCGTATTAACCTCAGCACTCTGGAAGACCTGGAACCA 3116  
  
QY      361 GATGGAAGCTTCTGCAAGGTGCGCGCTGAGAGCCGAGTCAGGCAAGCTGCATGAAGCCACA 420  
        |||||||  
Db      3117 GATGGAAGCTTCTGCAAGGTGCGCGCTGAGAGCCGAGTCAGGCAAGCTGCATGAAGCCACA 3176  
  
QY      421 GGGACTTTGGTCCAGCATCTCAGCACTTTCTTTCCACGCTGTGTCCAGGGTCCCTGGGAGA 480  
        |||||||  
Db      3177 GGGACTTTGGTCCAGCATCTCAGCACTTTCTTTCCACGCTGTGTCCAGGGTCCCTGGGAGA 3236  
  
QY      481 GAGCCATCTGCCCAAAAGTGCCCTACTATATCAACCAAGAGACTCAAACTTGCT 540  
        |||||||  
Db      3237 GAGCCATCTGCCCAAAAGTGCCCTACTATATCAACCAAGAGACTCAAACTTGCT 3296  
  
QY      541 GGGACCATCCCAAAATGACAGAGCTTACAGCTTTTAGCTGACCTGAATAATGTCAAGAT 600  
        |||||||  
Db      3297 GGGACCATCCCAAAATGACAGAGCTTACAGCTTTTAGCTGACCTGAATAATGTCAAGAT 3356  
  
QY      601 TCTCAGCTTATAGAGACTGCCATGAACCTCCGAAGACTGCAGAAAGGCCCTTTGCTTGATC 660  
        |||||||  
Db      3357 TCTCAGCTTATAGAGACTGCCATGAACCTCCGAAGACTGCAGAAAGGCCCTTTGCTTGATC 3416  
  
QY      661 TCTTGAGCCTGTCAAGCTGCATGTGATGCTTTGGAACCAAGCAACCTCAAGCAAAATGACC 720  
        |||||||  
Db      3417 TCTTGAGCCTGTCAAGCTGCATGTGATGCTTTGGAACCAAGCAACCTCAAGCAAAATGACC 3476  
  
QY      721 AGCCCATGATATCTCGAGATTATTAATTGTTGAACCACTATTATGACCGCCTGGAGC 780  
        |||||||  
Db      3477 AGCCCATGATATCTCGAGATTATTAATTGTTGAACCACTATTATGACCGCCTGGAGC 3536  
  
QY      781 AAGAGCAACAATTTGGTCAACGTCCTCTGCGTGATATGTGTGAACCTGGCTGC 840  
        |||||||  
Db      3537 AAGAGCAACAATTTGGTCAACGTCCTCTGCGTGATATGTGTGAACCTGGCTGC 3596  
  
QY      841 TGAATGTTTATGATACGGGAGCAACAGGAGATCCGTCTCTTTTAAACTGGCA 900  
        |||||||  
Db      3597 TGAATGTTTATGATACGGGAGCAACAGGAGATCCGTCTCTTTTAAACTGGCA 3656  
  
QY      901 TCATTTCCCTGTGTAAAGCACATTTGGAAAGACAAGTACAGATACCTTTTCAAGCAAGTGG 960  
        |||||||  
Db      3657 TCATTTCCCTGTGTAAAGCACATTTGGAAAGACAAGTACAGATACCTTTTCAAGCAAGTGG 3716
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QY      961 CAAGTTCACAGGATTTTGTGACCAGCGAGGCTGGGCTCCTTCTGCATGATTTATCC 1020  
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Db      3717 CAAGTTCACAGGATTTTGTGACCAGCGAGGCTGGGCTCCTTCTGCATGATTTATCC 3776  
  
QY      1021 AAATTCACAGCAGTTGGGTGAAGTTGCATCCTTTGGGGCAGTAACATTGAGCCAAAGTG 1080  
        |||||||  
Db      3777 AAATTCACAGCAGTTGGGTGAAGTTGCATCCTTTGGGGCAGTAACATTGAGCCAAAGTG 3836  
  
QY      1081 TCCGAGCTGCTTCCAATTTGTCTAATAATAAGCCAGAGATCGAAGCGGCTCTTCCTAG 1140  
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Db      3837 TCCGAGCTGCTTCCAATTTGTCTAATAATAAGCCAGAGATCGAAGCGGCTCTTCCTAG 3896  
  
QY      1141 ACTGATGAGACTGGAACCCCAAGTCCATGCTGTGGCTGCCCGCTCTGACAGAGTGCTG 1200  
        |||||||  
Db      3897 ACTGATGAGACTGGAACCCCAAGTCCATGCTGTGGCTGCCCGCTCTGACAGAGTGCTG 3956  
  
QY      1201 CTGCAAGAACTGCCAAGCATCAGGCCCAATGTAACATCTGCAAAAGAGTGTCCAATCATTG 1260  
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Db      3957 CTGCAAGAACTGCCAAGCATCAGGCCCAATGTAACATCTGCAAAAGAGTGTCCAATCATTG 4016  
  
QY      1261 GATTCAAGTACAGAGTCTAAAGCATTAAATTATGACATCTGCAAAAGCTGCTTTT 1320  
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Db      4017 GATTCAAGTACAGAGTCTAAAGCATTAAATTATGACATCTGCAAAAGCTGCTTTT 4076  
  
QY      1321 CTGTCGAGTTGCAAAAAGCCATAAATGCACTATCCCATGGTGAATATGCACTCCGA 1380  
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Db      4077 CTGTCGAGTTGCAAAAAGCCATAAATGCACTATCCCATGGTGAATATGCACTCCGA 4136  
  
QY      1381 CTACATCAGAGAGAAGATGTTGAGACCTTGCCCAAGTACTAAAAAACAATTTCGAACCA 1440  
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Db      4137 CTACATCAGAGAGAAGATGTTGAGACCTTGCCCAAGTACTAAAAAACAATTTCGAACCA 4196  
  
QY      1441 AAAGGTATTTTGGCAAGCATCCCGAAATGGGCTACCTGCCAGTGCAGACTGTCTAGAGG 1500  
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Db      4197 AAAGGTATTTTGGCAAGCATCCCGAAATGGGCTACCTGCCAGTGCAGACTGTCTAGAGG 4256  
  
QY      1501 G 1501  
Db      4257 G 4257
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RESULT 10  
US-09-845-416-29  
; Sequence 29, Application US/09845416  
; Publication No. US20030171312A1  
; GENERAL INFORMATION:  
; APPLICANT: XIAO, XIAO  
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE  
; FILE REFERENCE: THEREOF  
; CURRENT APPLICATION NUMBER: US/09/845,416  
; PRIOR FILING DATE: 2001-04-30  
; PRIOR APPLICATION NUMBER: 60/200,777  
; NUMBER OF SEQ ID NOS: 36  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 29  
; LENGTH: 4825  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-845-416-29
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Query Match      100.0%; Score 1501; DB 10; Length 4825;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 1501; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
  
QY      1 TTCTACGAAAGCAGGCTGAGAGGTCAATACTGAGTGGGAAAAATGAACTGCACTCCG 60  
        |||||||  
Db      3084 TTCTACGAAAGCAGGCTGAGAGGTCAATACTGAGTGGGAAAAATGAACTGCACTCCG 3143  
  
QY      61 CTGACTGGCAGAGAAAATAGATGAGACCTTGAAGACTCCAGAACTTCAAGAGGCCA 120  
        |||||||  
Db      3144 CTGACTGGCAGAGAAAATAGATGAGACCTTGAAGACTCCAGAACTTCAAGAGGCCA 3203
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QY 361 GATGAACGTTCTGCAGGTGGCCGTCGAGGACCCGAGTCAGGCGAGTCATGAAGCCACACA 420
Db 3467 GATGGAAGCTTCTGCAGGTGGCCGTCGAGGACCCGAGTCAGGCGAGTCATGAAGCCACACA 3526
QY 421 GGGACTTTGGTCCAGCATCTCAGCACTTTCTTTCCACGTCCTGTCCAGGGTCCCTGGGAGA 480
Db 3527 GGGACTTTGGTCCAGCATCTCAGCACTTTCTTTCCACGTCCTGTCCAGGGTCCCTGGGAGA 3586
QY 481 GAGCCATCTCGCCAAACAAAGTGCCCTACTATATCAACCAAGAGCTCAAAACAATTGCT 540
Db 3587 GAGCCATCTCGCCAAACAAAGTGCCCTACTATATCAACCAAGAGCTCAAAACAATTGCT 3646
QY 541 GGGACCATCCCAAATGACAGAGCTCTAACAGTCTTTAGCTGACCTGAATAATGTCAAGAT 600
Db 3647 GGGACCATCCCAAATGACAGAGCTCTAACAGTCTTTAGCTGACCTGAATAATGTCAAGAT 3706
QY 601 TCTCAGCTTATAGGACTGCCATGAACCTCCGAAGACTGCAGAAGGCCCTTGTGATC 660
Db 3707 TCTCAGCTTATAGGACTGCCATGAACCTCCGAAGACTGCAGAAGGCCCTTGTGATC 3766
QY 661 TCTTGAGCCTGTCAAGCTGCATGTGATGCTTTGGACCAAGACAACCTCAAGCAAAATGACC 720
Db 3767 TCTTGAGCCTGTCAAGCTGCATGTGATGCTTTGGACCAAGACAACCTCAAGCAAAATGACC 3826
QY 721 AGCCCATGGATATCTCGAGATTATTAATTGTTGACCACTATTTAAGCCGCTGGAGC 780
Db 3827 AGCCCATGGATATCTCGAGATTATTAATTGTTGACCACTATTTAAGCCGCTGGAGC 3886
QY 781 AAGAGCAACAATTTGGTCAACGTCCTCTCTGCGTGATATGTGAACTGGCTGC 840
Db 3887 AAGAGCAACAATTTGGTCAACGTCCTCTCTGCGTGATATGTGAACTGGCTGC 3946
QY 841 TGAATGTTTATGATACGGGACGAACAGGAGATCCGTGTCTCTTTTAAACTGGCA 900
Db 3947 TGAATGTTTATGATACGGGACGAACAGGAGATCCGTGTCTCTTTTAAACTGGCA 4006
QY 901 TCATTTCCCTGTGTAAAGCACATTTGGAGAACAAGTACAGATACCTTTTCAAGCAAGTGG 960
Db 4007 TCATTTCCCTGTGTAAAGCACATTTGGAGAACAAGTACAGATACCTTTTCAAGCAAGTGG 4066
QY 961 CAAGTTCAACAGGATTTTGTGACCAAGCGAGGCTGGGCTCTTCTGCATGATTTCTATCC 1020
Db 4067 CAAGTTCAACAGGATTTTGTGACCAAGCGAGGCTGGGCTCTTCTGCATGATTTCTATCC 4126
QY 1021 AAATTCGAAGACAGTTGGGTGAAGTGCATCTTTGGGGCAGTAACATTGAGCCCAAGTG 1080
Db 4127 AAATTCGAAGACAGTTGGGTGAAGTGCATCTTTGGGGCAGTAACATTGAGCCCAAGTG 4186
QY 1081 TCCGAGCTGCTTCCCAATTTGCTAATAATAAGCCAGAGATCGAAGCGCCCTTCTCTAG 1140
Db 4187 TCCGAGCTGCTTCCCAATTTGCTAATAATAAGCCAGAGATCGAAGCGCCCTTCTCTAG 4246
QY 1141 ACTGATGAGACTGGAACCCCAAGTCCATGCTGTGGCTGCCCTCTGCAAGAGTGGCTG 1200
Db 4247 ACTGATGAGACTGGAACCCCAAGTCCATGCTGTGGCTGCCCTCTGCAAGAGTGGCTG 4306
QY 1201 CTGCAGAACTGCGCAAGCATCAGGCGCAATGTAAACATCTGCAAAAGAGTGTCCAATCATTG 1260
Db 4307 CTGCAGAACTGCGCAAGCATCAGGCGCAATGTAAACATCTGCAAAAGAGTGTCCAATCATTG 4366
QY 1261 GATTCAAGTACAGAGTCTTAAAGCACTTAAATTATGACATCTGCCAAAGCTGCTTTT 1320
Db 4367 GATTCAAGTACAGAGTCTTAAAGCACTTAAATTATGACATCTGCCAAAGCTGCTTTT 4426
QY 1321 CTGGTCAAGTTGCAAAAGCCCATAAATGACATATCCCATGCTGGAATATTGCACTCCGA 1380
Db 4427 CTGGTCAAGTTGCAAAAGCCCATAAATGACATATCCCATGCTGGAATATTGCACTCCGA 4486
QY 1381 CTACATCAGAGAAAGATGTTGAGACTTTGCGCAAGGTACTAATAAAACAATTTGGAACCA 1440
Db 4487 CTACATCAGAGAAAGATGTTGAGACTTTGCGCAAGGTACTAATAAAACAATTTGGAACCA 4546

QY 1441 AAAGTATTTTGGCAAGCATCCCCGAATGGGCTACCTGCCAGTGCAGACTGTCTTAGAGG 1500
Db 4547 AAAGTATTTTGGCAAGCATCCCCGAATGGGCTACCTGCCAGTGCAGACTGTCTTAGAGG 4606
QY 1501 G 1501
Db 4607 G 4607
RESULT 12
US-09-845-416-28
; Sequence 28, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; FILE REFERENCE: THEREOF
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845,416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 28
; LENGTH: 4966
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-28

Query Match 100.0%; Score 1501; DB 10; Length 4966;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1501; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TTCTACGAAGCAGGCTGAGAGGTCAATACTGAGTGGGAAATTTGAACCTGCACCTCCG 60
Db 3225 TTCTACGAAGCAGGCTGAGAGGTCAATACTGAGTGGGAAATTTGAACCTGCACCTCCG 3284
QY 61 CTGACTGGCAGAGAAATATAGATGAGACCTTGAAAGACTCCAGAACTTCAAGAGGCCA 120
Db 3285 CTGACTGGCAGAGAAATATAGATGAGACCTTGAAAGACTCCAGAACTTCAAGAGGCCA 3344
QY 121 CGGATGAGCTGGAACCTCAAGCTGGCCAGCTGAGGTGATCAAGGATCCTGGCAGCCCG 180
Db 3345 CGGATGAGCTGGAACCTCAAGCTGGCCAGCTGAGGTGATCAAGGATCCTGGCAGCCCG 3404
QY 181 TGGGCGATCTCTCATTTGACTCTTCCAAAGATCACTCGAGAAAGTCAAGGCACTTGCAG 240
Db 3405 TGGGCGATCTCTCATTTGACTCTTCCAAAGATCACTCGAGAAAGTCAAGGCACTTGCAG 3464
QY 241 GAGAAATGCGCCTCTGAAGAGAACGTGAGCCACGTCAATGACCTTGCCAGCTTA 300
Db 3465 GAGAAATGCGCCTCTGAAGAGAACGTGAGCCACGTCAATGACCTTGCCAGCTTA 3524
QY 301 CCACTTTGGCATTGAGCTCTCAACCGTATTAACCTCAGCACTCTGGAAGACCTGAACACCA 360
Db 3525 CCACTTTGGCATTGAGCTCTCAACCGTATTAACCTCAGCACTCTGGAAGACCTGAACACCA 3584
QY 361 GATGAAGCTTCTGAGGTGGCCGTGAGAGCCGAGTCAAGCAGCTGCATGAAGCCACCA 420
Db 3585 GATGAAGCTTCTGAGGTGGCCGTGAGAGCCGAGTCAAGCAGCTGCATGAAGCCACCA 3644
QY 421 GGGACTTTGGTCCAGCATCTCAGCACTTTCTTCCACGTCGTGCAAGGTCCTGGGAGA 480
Db 3645 GGGACTTTGGTCCAGCATCTCAGCACTTTCTTCCACGTCGTGCAAGGTCCTGGGAGA 3704
QY 481 GAGCCATCTGGCCAAACAAAGTGCCCTACTATATCAACCAAGAGACTCAAAACAATTGCT 540
Db 3705 GAGCCATCTGGCCAAACAAAGTGCCCTACTATATCAACCAAGAGACTCAAAACAATTGCT 3764
QY 541 GGGACCATCCCAAATGACAGAGCTCTAACAGTCTTTAGCTGACCTGAATAATGTCAAGAT 600
Db 3765 GGGACCATCCCAAATGACAGAGCTCTAACAGTCTTTAGCTGACCTGAATAATGTCAAGAT 3824

QY	601	TCTCAGCTTATAGGACTGCCATGAAACTCCGAAAGACTGCAGAAAGCCCTTGTCTTGATC	660
Db	3825	TCTCAGCTTATAGGACTGCCATGAAACTCCGAAAGACTGCAGAAAGCCCTTGTCTTGATC	3884
QY	661	TCTTGAGCCTGTCCAGCTGCATGTGATGCCCTTGGAACGACACAACCTCAAGCAAAATGACC	720
Db	3885	TCTTGAGCCTGTCCAGCTGCATGTGATGCCCTTGGAACGACACAACCTCAAGCAAAATGACC	3944
QY	721	AGCCCATGATATTCCTGCAGATTATTAATTGTTGACCACTATTTATGACCGCTTGAGC	780
Db	3945	AGCCCATGATATTCCTGCAGATTATTAATTGTTGACCACTATTTATGACCGCTTGAGC	4004
QY	781	AAGAGCAACAATTTGGTCAACGTCCTCTCTGCGTGATATGTGTCTGAACTGGCTGC	840
Db	4005	AAGAGCAACAATTTGGTCAACGTCCTCTCTGCGTGATATGTGTCTGAACTGGCTGC	4064
QY	841	TGAATGTTTATGATACGGGACGAAACAGGAGGATCCGTGTCCTGCTTTTAAACTGGCA	900
Db	4065	TGAATGTTTATGATACGGGACGAAACAGGAGGATCCGTGTCCTGCTTTTAAACTGGCA	4124
QY	901	TCATTTCCCTGTGTAAAGCACATTTGGAAGACAAGTACAGATACCTTTCAAGCAAGTGG	960
Db	4125	TCATTTCCCTGTGTAAAGCACATTTGGAAGACAAGTACAGATACCTTTCAAGCAAGTGG	4184
QY	961	CAAGTTCAACAGGATTTTGTGACACGCGCAGGCTGGGCTCCTTCTGCATGATTTCTATCC	1020
Db	4185	CAAGTTCAACAGGATTTTGTGACACGCGCAGGCTGGGCTCCTTCTGCATGATTTCTATCC	4244
QY	1021	AAATTCCAAGACAGTTGGGTGAAGTTGCATCCTTTGGGGGACAGTAACATTGAGCCAAAGTG	1080
Db	4245	AAATTCCAAGACAGTTGGGTGAAGTTGCATCCTTTGGGGGACAGTAACATTGAGCCAAAGTG	4304
QY	1081	TCCGGAGCTGCTTCCAATTGCTAATAATAAGCCAGAGATCGAAGCGCCCTTCTCTAG	1140
Db	4305	TCCGGAGCTGCTTCCAATTGCTAATAATAAGCCAGAGATCGAAGCGCCCTTCTCTAG	4364
QY	1141	ACTGATGAGACTGGAACCCCACTCCATGTGTGGCTGCCCTCTGCACAGAGTGCTG	1200
Db	4365	ACTGATGAGACTGGAACCCCACTCCATGTGTGGCTGCCCTCTGCACAGAGTGCTG	4424
QY	1201	CTGCAGAACTGCCAAGCATCAGGCCAAATGTAAACATCTGCAGAAAGAGTGTCCAATCATTG	1260
Db	4425	CTGCAGAACTGCCAAGCATCAGGCCAAATGTAAACATCTGCAGAAAGAGTGTCCAATCATTG	4484
QY	1261	GATTCAAGTACAGAGTCTAAAGCACCTTAATTATGACATCTGCCAAAGCTGCTTTT	1320
Db	4485	GATTCAAGTACAGAGTCTAAAGCACCTTAATTATGACATCTGCCAAAGCTGCTTTT	4544
QY	1321	CTGGTCGATTGCAAAAGGCCATAAATGCACTATCCCATGTGTGAATATTGCACTCCGA	1380
Db	4545	CTGGTCGATTGCAAAAGGCCATAAATGCACTATCCCATGTGTGAATATTGCACTCCGA	4604
QY	1381	CTACATCAGGAGAGATGTTGAGACTTTGGCAAGGTACTAAAAAACAATTTGGAACCA	1440
Db	4605	CTACATCAGGAGAGATGTTGAGACTTTGGCAAGGTACTAAAAAACAATTTGGAACCA	4664
QY	1441	AAAGGTATTTTGGCAAGCATCCCGAATGGGCTACCTGCCAGTGCAGACTGTCTTAGAGG	1500
Db	4665	AAAGGTATTTTGGCAAGCATCCCGAATGGGCTACCTGCCAGTGCAGACTGTCTTAGAGG	4724
QY	1501	G 1501	
Db	4725	G 4725	

RESULT 13
US-09-845-416-34
; Sequence 34, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE

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; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: DEL142
; CURRENT APPLICATION NUMBER: US/09/845,416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 34
;
; LENGTH: 4990
;
; TYPE: DNA
;
; ORGANISM: Homo sapiens
US-09-845-416-34

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Query Match	100.0%;	Score 1501;	DB 10;	Length 4990;
Best Local Similarity	100.0%;	Pred. No. 0;		
Matches 1501; Conservative	0;	Mismatches	0;	Indels 0; Gaps 0;

QY	1	TTCTACGAAAGCAGGCTGAGAGGCTCAATACTGAGTGGGAAAAATTGAACCTGCACCTCCG	60
Db	3249	TTCTACGAAAGCAGGCTGAGAGGCTCAATACTGAGTGGGAAAAATTGAACCTGCACCTCCG	3308
QY	61	CTGACTGGCAGAGAAAAATAGATGAGACCCCTTGAAGAATCCAGAACTTCAAGAGGCCA	120
Db	3309	CTGACTGGCAGAGAAAAATAGATGAGACCCCTTGAAGAATCCAGAACTTCAAGAGGCCA	3368
QY	121	CGGATGAGCTGGACCTCAAGCTGCCCAAGCTGAGGTGATCAAGGATCCTGGCAGCCCG	180
Db	3369	CGGATGAGCTGGACCTCAAGCTGCCCAAGCTGAGGTGATCAAGGATCCTGGCAGCCCG	3428
QY	181	TGGGCGATCTCCTCATTTGACTCTCTCCAAGATCACTTCGAGAAAGTCAAGGCACCTTCGAG	240
Db	3429	TGGGCGATCTCCTCATTTGACTCTCTCCAAGATCACTTCGAGAAAGTCAAGGCACCTTCGAG	3488
QY	241	GAGAAATTGCGCCTCTGAAAGAGAAAGTGAGCCACGTCATATGACCTTGCTCGCCAGCTTA	300
Db	3489	GAGAAATTGCGCCTCTGAAAGAGAAAGTGAGCCACGTCATATGACCTTGCTCGCCAGCTTA	3548
QY	301	CCACTTTGGGCATTCAAGCTCTCACCGTATTAACCTCAGCACTCTGGAAGACCTGAACACCA	360
Db	3549	CCACTTTGGGCATTCAAGCTCTCACCGTATTAACCTCAGCACTCTGGAAGACCTGAACACCA	3608
QY	361	GATGGAAGCTTCTGCAAGGTGGCCGTCGAGGACCGAGTCAGGCAGCTGCATGAAGCCACCA	420
Db	3609	GATGGAAGCTTCTGCAAGGTGGCCGTCGAGGACCGAGTCAGGCAGCTGCATGAAGCCACCA	3668
QY	421	GGGACTTTGGTCCAGCATCTCAGCACTTTCTTTCCACGCTGTCTCAAGGTCCTGGGAGA	480
Db	3669	GGGACTTTGGTCCAGCATCTCAGCACTTTCTTTCCACGCTGTCTCAAGGTCCTGGGAGA	3728
QY	481	GAGCCATCTCGCCCAAACAAAGTGCCCTACTATATCAACCACGAGACTCAAAACAATTGCT	540
Db	3729	GAGCCATCTCGCCCAAACAAAGTGCCCTACTATATCAACCACGAGACTCAAAACAATTGCT	3788
QY	541	GGGACCATCCCAAATGACAGAGCTTACAGTCTTGAAGCTGAATATGTCCAGAT	600
Db	3789	GGGACCATCCCAAATGACAGAGCTTACAGTCTTGAAGCTGAATATGTCCAGAT	3848
QY	601	TCTCAGCTTATAGAACTGCCATGAACCTCCGAAGACTGCAGAAAGGCCCTTGCTTGATC	660
Db	3849	TCTCAGCTTATAGAACTGCCATGAACCTCCGAAGACTGCAGAAAGGCCCTTGCTTGATC	3908
QY	661	TCTTGAGCCTGTCAAGCTGCATGTGATGCTTGAACCAAGCAACTTCAAGCAAAATGACC	720
Db	3909	TCTTGAGCCTGTCAAGCTGCATGTGATGCTTGAACCAAGCAACTTCAAGCAAAATGACC	3968
QY	721	AGCCCATGGAATATCCTGCAGATTAATTAATTGTTGACCACTAATTAATGACCGCCTGGAGC	780
Db	3969	AGCCCATGGAATATCCTGCAGATTAATTAATTGTTGACCACTAATTAATGACCGCCTGGAGC	4028
QY	781	AAGAGCACAACAATTTGGTCAACGTCCTCTCTGCGTGGAATATGTCTGAACTGGCTGC	840
Db	4029	AAGAGCACAACAATTTGGTCAACGTCCTCTCTGCGTGGAATATGTCTGAACTGGCTGC	4088

QY 841 TGAATGTTATGATACGGGACGAACAGGAGATCCGTCTGTCTTTTAAACTGGCA 900
| | | | |
Db 4089 TGAATGTTATGATACGGGACGAACAGGAGATCCGTCTGTCTTTTAAACTGGCA 4148
QY 901 TCATTTCCCTGTGTAAAGCACATTTGGAGACAAGTACAGATACCTTTTCAAGCAAGTGG 960
| | | | |
Db 4149 TCATTTCCCTGTGTAAAGCACATTTGGAGACAAGTACAGATACCTTTTCAAGCAAGTGG 4208
QY 961 CAAGTTCAACAGATTGTTGTGACCGCAGCGCTGGGCTCTCTGTGATGATTTCTATCC 1020
| | | | |
Db 4209 CAAGTTCAACAGATTGTTGTGACCGCAGCGCTGGGCTCTCTGTGATGATTTCTATCC 4268
QY 1021 AAATTTCAAGACAGTTGGGTGAAGTTGCATCCTTTGGGGCAGTAAACATTTAGCCAAAGTG 1080
| | | | |
Db 4269 AAATTTCAAGACAGTTGGGTGAAGTTGCATCCTTTGGGGCAGTAAACATTTAGCCAAAGTG 4328
QY 1081 TCCGAGCTGCTTCCAATTTGCTAATAATAGCCAGATCGAAGCGGCTCTTCTTAG 1140
| | | | |
Db 4329 TCCGAGCTGCTTCCAATTTGCTAATAATAGCCAGATCGAAGCGGCTCTTCTTAG 4388
QY 1141 ACTGATGAGACTGGAAACCCAGTCCATGGTGGCTGCCCTCTGACACAGAGTGGCTG 1200
| | | | |
Db 4389 ACTGATGAGACTGGAAACCCAGTCCATGGTGGCTGCCCTCTGACACAGAGTGGCTG 4448
QY 1201 CTGCAGAACTGCCAAGCATCAGGCCCAATGTAAATCTGCAGAAAGTGTCAATCATTTG 1260
| | | | |
Db 4449 CTGCAGAACTGCCAAGCATCAGGCCCAATGTAAATCTGCAGAAAGTGTCAATCATTTG 4508
QY 1261 GATTTCAGGTACAGAGTCTTAAAGCACCTTAAATATGACATCTGCCAAAGCTCTTTT 1320
| | | | |
Db 4509 GATTTCAGGTACAGAGTCTTAAAGCACCTTAAATATGACATCTGCCAAAGCTCTTTT 4568
QY 1321 CTGTCAGTTGCAAAAGGCCATTAATATGACATCTCCATGCTGAATATTTGCACTCCGA 1380
| | | | |
Db 4569 CTGTCAGTTGCAAAAGGCCATTAATATGACATCTCCATGCTGAATATTTGCACTCCGA 4628
QY 1381 CTACATCAGAGAAAGATGTTGAGACTTTGCCAAGGTACTAAAAACAATTTTGAACCA 1440
| | | | |
Db 4629 CTACATCAGAGAAAGATGTTGAGACTTTGCCAAGGTACTAAAAACAATTTTGAACCA 4688
QY 1441 AAAGTATTTTTCGAAAGCATCCCGAATGGGCTACCTGCAGTGACAGTCTTTAGAGG 1500
| | | | |
Db 4689 AAAGTATTTTTCGAAAGCATCCCGAATGGGCTACCTGCAGTGACAGTCTTTAGAGG 4748
QY 1501 G 1501
|
Db 4749 G 4749

RESULT 14
US-09-845-416-36
; Sequence 36, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845,416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 36
; LENGTH: 5060
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-36

Query Match 100.0%; Score 1501; DB 10; Length 5060;
Best Local Similarity 100.0%; Pred. No. 0;

Matches 1501; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 TTCTACGAAAGCAGGCTGAGAGGTCAATACTAGTGGAAAAATTGAACCTGCATCCG 60
| | | | |
Db 3319 TTCTACGAAAGCAGGCTGAGAGGTCAATACTAGTGGAAAAATTGAACCTGCATCCG 3378
QY 61 CTGACTGCAGAGAAAAATAGATGAGACCTTGAAGAAGCTCCAGAACTTCAAGAGGCCA 120
| | | | |
Db 3379 CTGACTGCAGAGAAAAATAGATGAGACCTTGAAGAAGCTCCAGAACTTCAAGAGGCCA 3438
QY 121 CGGATGAGCTGGAACCTCAAGCTGCCCAAGCTGAGGTGATCAAGGGATCCTGGCAGCCCG 180
| | | | |
Db 3439 CGGATGAGCTGGAACCTCAAGCTGCCCAAGCTGAGGTGATCAAGGGATCCTGGCAGCCCG 3498
QY 181 TGGCGATCTCTCATTTGACTCTCTCCAAAGATCACTCGAGAAAAGTCAAGGCACTTGAG 240
| | | | |
Db 3499 TGGCGATCTCTCATTTGACTCTCTCCAAAGATCACTCGAGAAAAGTCAAGGCACTTGAG 3558
QY 241 GAGAAATTGCGCTGTAAAGAGAACGTGAGCCAGTCAATGACCTTGCCAGCTTA 300
| | | | |
Db 3559 GAGAAATTGCGCTGTAAAGAGAACGTGAGCCAGTCAATGACCTTGCCAGCTTA 3618
QY 301 CCACTTTGGGCAATTCACTCTCAACCTATTAACCTCAGCACTCTGGAAGACTGAAACCA 360
| | | | |
Db 3619 CCACTTTGGGCAATTCACTCTCAACCTATTAACCTCAGCACTCTGGAAGACTGAAACCA 3678
QY 361 GATGGAAGCTTTCAGAGTGGCCCTGAGAACCGAGTCAGGACGCTGATGAAGCCACCA 420
| | | | |
Db 3679 GATGGAAGCTTTCAGAGTGGCCCTGAGAACCGAGTCAGGACGCTGATGAAGCCACCA 4378
QY 421 GGGACTTTGGTCCAGCATCTCAGCACTTTCTTCCACGCTGTGCCAGGCTCCCTGGAGA 480
| | | | |
Db 3739 GGGACTTTGGTCCAGCATCTCAGCACTTTCTTCCACGCTGTGCCAGGCTCCCTGGAGA 3798
QY 481 GAGCCATCTGCGCAAACAAAGTGCCCTACTATATCAACCAAGAGACTCAAACAACTTGCT 540
| | | | |
Db 3799 GAGCCATCTGCGCAAACAAAGTGCCCTACTATATCAACCAAGAGACTCAAACAACTTGCT 3858
QY 541 GGGACCATCCCAAAATGACAGAGCTCTACCACTTTAGCTGACCTGAATTAATGTCAAGAT 600
| | | | |
Db 3859 GGGACCATCCCAAAATGACAGAGCTCTACCACTTTAGCTGACCTGAATTAATGTCAAGAT 3918
QY 601 TCTCAGCTTATAGACTGCCATGAAACTCCGAAGACTGCAGAGAGGCCCTTGCTTGATC 660
| | | | |
Db 3919 TCTCAGCTTATAGACTGCCATGAAACTCCGAAGACTGCAGAGAGGCCCTTGCTTGATC 3978
QY 661 TCTTGAGCCTGTGAGCTGCATGTGATGCTTGGAACCAAGCAACCTCAAGCAAAATGACC 720
| | | | |
Db 3979 TCTTGAGCCTGTGAGCTGCATGTGATGCTTGGAACCAAGCAACCTCAAGCAAAATGACC 4038
QY 721 AGCCCATGATATCTGCAGATTAATTAATTTGTAACCACTATTATGACCGCCTGGAGC 780
| | | | |
Db 4039 AGCCCATGATATCTGCAGATTAATTAATTTGTAACCACTATTATGACCGCCTGGAGC 4098
QY 781 AAGAGCACAACAATTGGTCAACGTCCTCTGCGTGATATGTCTGAACCTGGCTGC 840
| | | | |
Db 4099 AAGAGCACAACAATTGGTCAACGTCCTCTGCGTGATATGTCTGAACCTGGCTGC 4158
QY 841 TGAATGTTATGATACGGGACGAACAGGAGATCCGTCTCTTTTAAACTGGCA 900
| | | | |
Db 4159 TGAATGTTATGATACGGGACGAACAGGAGATCCGTCTCTTTTAAACTGGCA 4218
QY 901 TCATTTCCCTGTGTAAAGCACATTTGGAGACAAGTACAGATACCTTTTCAAGCAAGTGG 960
| | | | |
Db 4219 TCATTTCCCTGTGTAAAGCACATTTGGAGACAAGTACAGATACCTTTTCAAGCAAGTGG 4278
QY 961 CAAGTTCAACAGATTGTTGTGACCAAGCGCAGGCTGGGCTCTTCTGATGATTTCTATCC 1020
| | | | |
Db 4279 CAAGTTCAACAGATTGTTGTGACCAAGCGCAGGCTGGGCTCTTCTGATGATTTCTATCC 4338
QY 1021 AAATTTCAAGACAGTTGGGTGAAGTTGCATCCTTTGGGGCAGTAAACATTTAGCCAAAGTG 1080
| | | | |
Db 4339 AAATTTCAAGACAGTTGGGTGAAGTTGCATCCTTTGGGGCAGTAAACATTTAGCCAAAGTG 4398

QY		1081	TCCGAGCTGCTCTTCCAATTTGTATAATAAAGCCAGAGATCGAAGCGGCCCTCTTCCTAG	1140
Db		4399	TCCGAGCTGCTCTTCCAATTTGTATAATAAAGCCAGAGATCGAAGCGGCCCTCTTCCTAG	4458
QY		1141	ACTGGATGAGACTGGAAACCCCACTGCATGCTGTGCTGCCCTCCTGCACAGAGTGCGTG	1200
Db		4459	ACTGGATGAGACTGGAAACCCCACTGCATGCTGTGCTGCCCTCCTGCACAGAGTGCGTG	4518
QY		1201	CTGCAGAAACTGCCAAGCATCAGGCCCAATGTACATCTGCCAAAAGAGTGTCCAATCATTG	1260
Db		4519	CTGCAGAAACTGCCAAGCATCAGGCCCAATGTACATCTGCCAAAAGAGTGTCCAATCATTG	4578
QY		1261	GATTCAAGTACAGAGCTCTAAAGCACTTTAATTATGACATCTGCCAAAGCTGCTTTTTTT	1320
Db		4579	GATTCAAGTACAGAGCTCTAAAGCACTTTAATTATGACATCTGCCAAAGCTGCTTTTTTT	4638
QY		1321	CTGGTCGAGTTGCCAAAAGGCCATAAAATGCACCTATCCCATGCTGGAATATTGCCATCCGA	1380
Db		4639	CTGGTCGAGTTGCCAAAAGGCCATAAAATGCACCTATCCCATGCTGGAATATTGCCATCCGA	4698
QY		1381	CTACATCAGAGAGAAGATGTTGAGACCTTTGCCAAGTACTAAAAACAATTTGGAACCA	1440
Db		4699	CTACATCAGAGAGAAGATGTTGAGACCTTTGCCAAGTACTAAAAACAATTTGGAACCA	4758
QY		1441	AAAGTATTTTGGCGAAGCATCCCCGAATGGGCTACCTGCCAGTGCAAGCTGTCTTAGAGG	1500
Db		4759	AAAGTATTTTGGCGAAGCATCCCCGAATGGGCTACCTGCCAGTGCAAGCTGTCTTAGAGG	4818
QY		1501	G 1501	
Db		4819	G 4819	
RESULT 15				
US-09-845-416-27				
; Sequence 27, Application US/09845416				
; Publication No. US20030171312A1				
GENERAL INFORMATION:				
APPLICANT: XIAO, XIAO				
TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE				
TITLE OF INVENTION: THEREOF				
FILE REFERENCE: DE1142				
CURRENT APPLICATION NUMBER: US/09/845,416				
PRIOR FILING DATE: 2001-04-30				
PRIOR FILING DATE: 2000-04-28				
NUMBER OF SEQ ID NOS: 36				
SOFTWARE: PatentIn Ver. 2.1				
SEQ ID NO 27				
LENGTH: 5149				
TYPE: DNA				
ORGANISM: Homo sapiens				
US-09-845-416-27				

	Query Match	Best Local Similarity	100.0%; Score 1501;	DB 10;	Length 5149;
	Matches 1501;	Conservative	0; Mismatches	0; Indels	Gaps 0;
QY	1	TTCTACGAAAGCAGGCTGTAGGAGGTCAATACTGAGTGGGAAAAATTGAACCTGCACCTCCG	60		
Dd	3408	TTCTACGAAAGCAGGCTGTAGGAGGTCAATACTGAGTGGGAAAAATTGAACCTGCACCTCCG	3467		
QY	61	CTGACTGGCAGAGAAAAATAGATGAGACCCTTGAAAAGCTCCAGGAACCTCAAGAGGCCA	120		
Dd	3468	CTGACTGGCAGAGAAAAATAGATGAGACCCTTGAAAAGCTCCAGGAACCTCAAGAGGCCA	3527		
QY	121	CGGATGAGCTGGACCTCAAGCTGCGCCAAGCTGAGGTGATCAAGGGATCTGGCAGCCCG	180		
Dd	3528	CGGATGAGCTGGACCTCAAGCTGCGCCAAGCTGAGGTGATCAAGGGATCTGGCAGCCCG	3587		
QY	181	TGGGCGATCTCTCATTTGACTCTCTCCAAAGATCACTCGAGAAAGTCGAAGGCACCTTGAG	240		

Db	3588	TGGCGCATCTCCTCATTTGACTCTCTCCAAATCACTCGAGAAAGTCAAGGCACCTTCGAG	3647
QY	241	GAGAAATTGCGCCTCTGAAAGAGAAAGTGAGCCACGTCAATGACCTTGTCTCGCCAGCTTA	300
Db	3648	GAGAAATTGCGCCTCTGAAAGAGAAAGTGAGCCACGTCAATGACCTTGTCTCGCCAGCTTA	3707
QY	301	CCACTTTGGGCATTACGCTCTCACCGTATTAACCTCAGCACTCTGGAAGACCTGAACACCA	360
Db	3708	CAACTTTGGGCATTACGCTCTCACCGTATTAACCTCAGCACTCTGGAAGACCTGAACACCA	3767
QY	361	GATGGAAGCTTCTGCAGGTGGCCCTCGAGGACCCGAGTCAAGGACGCTGCATGAAGCCACA	420
Db	3768	GATGGAAGCTTCTGCAGGTGGCCCTCGAGGACCCGAGTCAAGGACGCTGCATGAAGCCACA	3827
QY	421	GGGACTTTGGTCCAGCATCTCAGCACTTCTTTCCACGTCTGTCCAGGGTCCCTGGGAGA	480
Db	3828	GGGACTTTGGTCCAGCATCTCAGCACTTCTTTCCACGTCTGTCCAGGGTCCCTGGGAGA	3887
QY	481	GAGCCATCTCGCCAAACAAAGTCCCCTACTATATCAACACGAGACTCAACCAACTTGCT	540
Db	3888	GAGCCATCTCGCCAAACAAAGTCCCCTACTATATCAACACGAGACTCAACCAACTTGCT	3947
QY	541	GGGACCATCCCAAAATGACAGAGCTCTACCACTTTAGCTGACCTGAATAATGTCAGAT	600
Db	3948	GGGACCATCCCAAAATGACAGAGCTCTACCACTTTAGCTGACCTGAATAATGTCAGAT	4007
QY	601	TCTCAGCTTATAGACTGCCATGAACCTCCGAAGACTGCAGAAAGGCCCTTGTGGATC	660
Db	4008	TCTCAGCTTATAGACTGCCATGAACCTCCGAAGACTGCAGAAAGGCCCTTGTGGATC	4067
QY	661	TCTTGAGCCTGTCACTGCATGTGATGCTTGGACCAAGCAAACTCAAGCAAAATGACC	720
Db	4068	TCTTGAGCCTGTCACTGCATGTGATGCTTGGACCAAGCAAACTCAAGCAAAATGACC	4127
QY	721	AGCCCATGGATATCTCTCAGATTATTAATTGTTGACCACTATTATGACCGCCTGGAGC	780
Db	4128	AGCCCATGGATATCTCTCAGATTATTAATTGTTGACCACTATTATGACCGCCTGGAGC	4187
QY	781	AAGAGCACAACAATTGGTCAACGTCCCTCTCTGCGTGATATGTCTGAACCTGGCTGC	840
Db	4188	AAGAGCACAACAATTGGTCAACGTCCCTCTCTGCGTGATATGTCTGAACCTGGCTGC	4247
QY	841	TGAATGTTTATGATACGGGACGAAACAGGGAGATCCGTCTCCTGTCTTTAAACTGGCA	900
Db	4248	TGAATGTTTATGATACGGGACGAAACAGGGAGATCCGTCTCCTGTCTTTAAACTGGCA	4307
QY	901	TCATTTCCCTGTGTAAAGCACATTTGGAGACAAGTACAGATACCTTTTCAAGCAAGTGG	960
Db	4308	TCATTTCCCTGTGTAAAGCACATTTGGAGACAAGTACAGATACCTTTTCAAGCAAGTGG	4367
QY	961	CAAGTTCACAAGGATTTTGTGACCAAGGACAGGCTGGGCTCCTTCTGCATGATTTATCC	1020
Db	4368	CAAGTTCACAAGGATTTTGTGACCAAGGACAGGCTGGGCTCCTTCTGCATGATTTATCC	4427
QY	1021	AAATTCCAGACAGTTGGGTGAAGTTGCATCTTTGGGGGACGTAACATTGAGCCAAAGTG	1080
Db	4428	AAATTCCAGACAGTTGGGTGAAGTTGCATCTTTGGGGGACGTAACATTGAGCCAAAGTG	4487
QY	1081	TCCGAGCTGCTTCCAATTGTGTAATAATAAGCCAGAGATCGAAGCGGCCCTTCCCTAG	1140
Db	4488	TCCGAGCTGCTTCCAATTGTGTAATAATAAGCCAGAGATCGAAGCGGCCCTTCCCTAG	4547
QY	1141	ACTGATGAGACTGGAACCCCAATCATGCTGTGGCTGCCCTCTGCACAGAGTGGCTG	1200
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Db	4668	GATTGAGGTACAGGAGTCTAAAGCACTTAATTATGACATCTGCCAAAGCTGCTTTTTTT	4727

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OY 1381 CTACATCAGAGAGAAGATGTTGAGACTTTGCCAAGGTACTAAAAACAATTTGGAACCA 1440
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Db 4848 AAAGGTATTTTGGCGAAGCATCCCCGAATGGGCTACCTGCCAGTGCAGACTGTCTTAGAGG 4907
OY 1501 G 1501
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Db 4908 G 4908

Search completed: March 2, 2005, 20:00:41
Job time : 902.381 secs

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GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: March 2, 2005, 04:16:40 ; Search time 261.233 Seconds
(without alignments)
9401.765 Million cell updates/sec

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Perfect score: 1501
Sequence: 1 ttctacgaagcagctgag.....gtgcagactgtcttagagg 1501

Scoring table: IDENTITY NUC
Gapop 10.0 , Gapext 1.0

Searched: 1202784 seqs, 818138359 residues

Total number of hits satisfying chosen parameters: 2405568

Minimum DB seq length: 0
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Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1501	100.0	5952	4	US-09-687-875A-1 Sequence 1, Appl1
2	1499.4	99.9	5627	4	US-09-949-016-2831 Sequence 2831, Ap
3	1499.4	99.9	5627	4	US-09-949-016-2832 Sequence 2832, Ap
4	1499.4	99.9	7070	4	US-09-949-016-2804 Sequence 2804, Ap
5	1499.4	99.9	7070	4	US-09-949-016-2805 Sequence 2805, Ap
6	1499.4	99.9	7070	4	US-09-949-016-2806 Sequence 2806, Ap
7	1499.4	99.9	7070	4	US-09-949-016-2807 Sequence 2807, Ap
8	1499.4	99.9	7070	4	US-09-949-016-2808 Sequence 2808, Ap
9	1499.4	99.9	7070	4	US-09-949-016-2809 Sequence 2809, Ap
10	1499.4	99.9	7070	4	US-09-949-016-2810 Sequence 2810, Ap
11	1499.4	99.9	7070	4	US-09-949-016-2811 Sequence 2811, Ap
12	1499.4	99.9	7109	4	US-09-949-016-2812 Sequence 2812, Ap
13	1499.4	99.9	7109	4	US-09-949-016-2813 Sequence 2813, Ap
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15	1499.4	99.9	7109	4	US-09-949-016-2815 Sequence 2815, Ap
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18	1499.4	99.9	7109	4	US-09-949-016-2818 Sequence 2818, Ap
19	1499.4	99.9	7109	4	US-09-949-016-2819 Sequence 2819, Ap
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22	1499.4	99.9	7141	4	US-09-949-016-2823 Sequence 2823, Ap
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24	1499.4	99.9	7141	4	US-09-949-016-2825 Sequence 2825, Ap
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26	1307.4	87.1	19307	3	US-08-836-022A-10 Sequence 10, Appl1
27	1307.4	87.1	19307	3	US-09-427-048A-10 Sequence 10, Appl1

28	984	65.6	1571	4	US-09-949-016-2821	Sequence 2821, Ap
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33	984	65.6	4556	4	US-09-949-016-2830	Sequence 2830, Ap
34	750.8	50.0	6045	4	US-09-091-501B-7	Sequence 7, Appl1
35	750.8	50.0	10320	4	US-09-091-501B-9	Sequence 9, Appl1
36	696.8	46.4	3499	4	US-09-949-016-276	Sequence 276, App
37	695.2	46.3	3498	4	US-09-949-016-1359	Sequence 1359, Ap
38	684.4	45.6	3915	4	US-09-976-594-93	Sequence 93, Appl1
39	230.8	15.4	393753	4	US-09-949-016-14573	Sequence 14573, A
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41	230.8	15.4	818128	4	US-09-949-016-14546	Sequence 14546, A
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43	230.8	15.4	818128	4	US-09-949-016-14548	Sequence 14548, A
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ALIGNMENTS

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US-09-687-875A-1
; Sequence 1, Application US/09687875A
; Patent No. 6544786
; GENERAL INFORMATION:
; APPLICANT: Xiao, Xiao
; APPLICANT: Liu, Paul
; TITLE OF INVENTION: METHOD AND VECTOR FOR PRODUCING AND TRANSFERRING TRANS-SPICED PEI
; FILE REFERENCE: 00792
; CURRENT APPLICATION NUMBER: US/09/687,875A
; CURRENT FILING DATE: 2000-10-13
; PRIOR APPLICATION NUMBER: 60/158,868
; PRIOR FILING DATE: 1999-10-15
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
; LENGTH: 5952
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (2897)..(2898)
; OTHER INFORMATION: S4 junction site
; NAME/KEY: misc feature
; LOCATION: (3198)..(3199)
; OTHER INFORMATION: S2 junction site
US-09-687-875A-1

Query Match      100.0%; Score 1501; DB 4; Length 5952;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1501; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 TTCTACGAAGCAGGCTGAGGAGTCAATACTGAGTGGAAAAATTGAACCTGCACTCCG 60
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QY      61 CTGACTGGCAGAAAAATAGATGAGACCTTGAAAGACTCCAGAACTTCAAGAGGCCA 120
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QY      181 TGGGCGATCTCTCATTTGACTCTTCAAGATCACTCGAAGATCAAGGCACTTCGAG 240
DB      3782 TGGGCGATCTCTCATTTGACTCTTCAAGATCACTCGAAGATCAAGGCACTTCGAG 3841

QY      241 GAGAAATTGGCCCTTGAAAGAGACGTGAGCCACGTCAATGACTTGTGCGCAGCTTA 300
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QY 361 GATGGAAGCTTCTGCAGGTGGCCGTCGAGAGACCGAGTCAGGCACTGCATGAAGCCACCA 420
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Db 4802 CTGCAGAAACTGCCAAGCATCAGGCCCAATGTAACTCTGCAAAAGAGTGTCCAATCATTG 4861
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Db 4862 GATTCAGGTACAGAGTCTAAGACACTTAAATATGACATCTGCCAAAGCTGCTTTT 4921
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Db 4922 CTGCTCAGTTCGAAAAGGCCATAAATGACATATCCCATGCTGGAATATGCACTCCGA 4981

QY 1381 CTACATCAGAGAGATGTTGAGACTTTGGCCAAAGTACTTAAACCAATTTGGAACCA 1440
Db 4982 CTACATCAGAGAGATGTTGAGACTTTGGCCAAAGTACTTAAACCAATTTGGAACCA 5041
QY 1441 AAAGTATTTTGGCAAGCATCCCGGAAATGGGCTACCTGCGCAGTGCAGACTGTCTTAGAG 1500
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QY 1501 G 1501
Db 5102 G 5102

RESULT 2
US-09-949-016-2831
; Sequence 2831, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: C1001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; PRIOR FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2831
; LENGTH: 5627
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-2831

Query Match 99.9%; Score 1499.4; DB 4; Length 5627;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1500; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
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Db 582 TTCTACGAAAGCAGGCTGAGGAGTCAATACCTGAGTGGGAAAAATTGAACCTGCACTCCG 641
QY 61 CTGACTGGCAGAGAAAAATAGATGAGACCTTGAAAGACTCCAGGAACTTCAAGAGGCCA 120
Db 642 CTGACTGGCAGAGAAAAATAGATGAGACCTTGAAAGACTCCAGGAACTTCAAGAGGCCA 701
QY 121 CGATGAGCTGGAACCTCAAGCTGGCCAAAGCTGAGGTGATCAAGGATCCTGGCAGCCG 180
Db 702 CGATGAGCTGGAACCTCAAGCTGGCCAAAGCTGAGGTGATCAAGGATCCTGGCAGCCG 761
QY 181 TGGGCAATCTCTCATTTGACTCTCTCCAAGATCACCTCGAGAAAAGTCAAGGCACTTCGAG 240
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QY 241 GAGAAATTGCGCCTCTGAAAGAGAAAGTGAGGCCACGTCAATGACCTTGTCTGCGCACTTA 300
Db 822 GAGAAATTGCGCCTCTGAAAGAGAAAGTGAGGCCACGTCAATGACCTTGTCTGCGCACTTA 881
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Db 942 GATGGAAGCTTCTGCAAGTGGCCGTCGAGGACCGAGTCAAGGCACTGCAAGAGCCACCA 1001
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Db	1002	GGGACTTTGGTCCAGCATCTCAGCACTTCTTTCCACGTCTGTCCAGGGTCCCTGGAGA	1061
QY	481	GAGCCATCTCGCCAAACAAAGTGCCCTACTATATCAACCAAGACTCAAAACAATTGCT	540
Db	1062	GAGCCATCTCGCCAAACAAAGTGCCCTACTATATCAACCAAGACTCAAAACAATTGCT	1121
QY	541	GGGACCATCCCAAATGACAGAGCTCTACCACTCTTAGCTGACCTGAATATGTCAAT	600
Db	1122	GGGACCATCCCAAATGACAGAGCTCTACCACTCTTAGCTGACCTGAATATGTCAAT	1181
QY	601	TCTCAGCTTATAGGACTGCCATGAACCTCCGAAGACTGCAGAGGCCCTTGTGGATC	660
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QY	661	TCTTGAGCCTGTCACTGCATGTGATGCCCTTGAGACCAGCAAACTCAAGCAAAATGACC	720
Db	1242	TCTTGAGCCTGTCACTGCATGTGATGCCCTTGAGACCAGCAAACTCAAGCAAAATGACC	1301
QY	721	AGCCCATGATATCCTGCAATTAATTAATTGTTGACCACTATTATGACCGCCTGAGC	780
Db	1302	AGCCCATGATATCCTGCAATTAATTAATTGTTGACCACTATTATGACCGCCTGAGC	1361
QY	781	AAGAGCACAACAATTTGGTCAACGTCCCTCTCTGCGTGATATGTGTCTGAACCTGGCTGC	840
Db	1362	AAGAGCACAACAATTTGGTCAACGTCCCTCTCTGCGTGATATGTGTCTGAACCTGGCTGC	1421
QY	841	TGAATGTTTATGATACGGGCGAAACAGGGAGATCCGTGCTGTCTTTTAAACTGGCA	900
Db	1422	TGAATGTTTATGATACGGGCGAAACAGGGAGATCCGTGCTGTCTTTTAAACTGGCA	1481
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QY	1021	AAATTCCAAGACAGTTGGGTGAAGTGCATCCTTTGGGGCAGTAACATTGAGCCAAAGTG	1080
Db	1602	AAATTCCAAGACAGTTGGGTGAAGTGCATCCTTTGGGGCAGTAACATTGAGCCAAAGTG	1661
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QY	1321	CTGTCGAGTTGCAAAAGGCCATAAAATGCATATCCCATGGTGAATATTGCACTCCGA	1380
Db	1902	CTGTCGAGTTGCAAAAGGCCATAAAATGCATATCCCATGGTGAATATTGCACTCCGA	1961
QY	1381	CTACATCAGGAGAAGATGTTGAGACTTTTGCCAAGGTACTAAAAACAATTTGGAACCA	1440
Db	1962	CTACATCAGGAGAAGATGTTGAGACTTTTGCCAAGGTACTAAAAACAATTTGGAACCA	2021
QY	1441	AAAGGTATTTTGCGAAGCATCCCGAATGGGCTACCTGCCAGTGCAGACTGTCTTAGAGG	1500
Db	2022	AAAGGTATTTTGCGAAGCATCCCGAATGGGCTACCTGCCAGTGCAGACTGTCTTAGAGG	2081
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Db	2082	G 2082	

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RESULT 3
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; Sequence 2832, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2832
; LENGTH: 5627
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-2832

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Query Match	99.9%;	Score 1499.4;	DB 4;	Length 5627;
Best Local Similarity	99.9%;	Pred. No. 0;		
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Db 642	CTGACTGCGAGAGAAAAATAGATGAGACCTTGAAAGACTCCGGAACCTTCAAGAGCCA	701		
QY 121	CGGATGAGCTGGAACCTCAAGCTGCGCCAAGCTGAAGTGATCAAGGATCCTGGCAGCCG	180		
Db 702	CGGATGAGCTGGAACCTCAAGCTGCGCCAAGCTGAAGTGATCAAGGATCCTGGCAGCCG	761		
QY 181	TGGCGGATCTCCTCATTTGACTCTCTCCAAGATCACTTCGAGAAAGTCAAGGCACTTCGAG	240		
Db 762	TGGCGGATCTCCTCATTTGACTCTCTCCAAGATCACTTCGAGAAAGTCAAGGCACTTCGAG	821		
QY 241	GAGAAATTGCGCTCTGAAAGAGAAACGTGAGCCAAGTCAATGACCTTGCTGCGCAGCTTA	300		
Db 822	GAGAAATTGCGCTCTGAAAGAGAAACGTGAGCCAAGTCAATGACCTTGCTGCGCAGCTTA	881		
QY 301	CCACTTTGGGCAATCAGCTCTCACCCGTATAACCTCAGCACTCTGGAAGACCTGAACACA	360		
Db 882	CCACTTTGGGCAATCAGCTCTCACCCGTATAACCTCAGCACTCTGGAAGACCTGAACACA	941		
QY 361	GATGAAGCTTCTGCAAGTGGCCGTCGAGGACCGAGTCAGGCACTGCATGAAGCCACA	420		
Db 942	GATGAAGCTTCTGCAAGTGGCCGTCGAGGACCGAGTCAGGCACTGCATGAAGCCACA	1001		
QY 421	GGGACTTTGGTCCAGCATCTCAGCACTTTCTTCCACGCTGTGTCAGAGGTCCTTGAGAGA	480		
Db 1002	GGGACTTTGGTCCAGCATCTCAGCACTTTCTTCCACGCTGTGTCAGAGGTCCTTGAGAGA	1061		
QY 481	GAGCCATCTCGCCAAACAAAGTGCCCTACTATATCAACCAAGAGACTCAAAACAACTTGCT	540		
Db 1062	GAGCCATCTCGCCAAACAAAGTGCCCTACTATATCAACCAAGAGACTCAAAACAACTTGCT	1121		
QY 541	GGGACCATCCCAAAATGACAGAGCTCTACCACTTTAGCTGACCTGAATATATGTCAGAT	600		
Db 1122	GGGACCATCCCAAAATGACAGAGCTCTACCACTTTAGCTGACCTGAATATATGTCAGAT	1181		
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      |||
Db      1362 AAGAGCAACAATTTGGTCAACGTCCCTCTCTGCGTGGATATGTGTGAACTGGCTGC 1421
QY      841 TGAATGTTTATGATACGGGACGAACAGGAGGATCCGTGTCTCTTTTAAACTGGCA 900
      |||
Db      1422 TGAATGTTTATGATACGGGACGAACAGGAGGATCCGTGTCTCTTTTAAACTGGCA 1481
QY      901 TCATTTCCCTGTGTAAGACATTTGGAAGACAGTACAGTACCTTTTCAAGCAAGTGG 960
      |||
Db      1482 TCATTTCCCTGTGTAAGACATTTGGAAGACAGTACAGTACCTTTTCAAGCAAGTGG 1541
QY      961 CAAATTCAACAGGATTTTGTGACCAAGCGCAGGCTGGCCCTCTTCTGCAATGATCTATCC 1020
      |||
Db      1542 CAAATTCAACAGGATTTTGTGACCAAGCGCAGGCTGGCCCTCTTCTGCAATGATCTATCC 1601
QY      1021 AAATTTCCAAGACAGTTGGGTGAAGTGCATCTTTGGGGGAGTAACATTTGAGCCAAAGTG 1080
      |||
Db      1602 AAATTTCCAAGACAGTTGGGTGAAGTGCATCTTTGGGGGAGTAACATTTGAGCCAAAGTG 1661
QY      1081 TCCGAGCTGCTTCCAATTTGCTAATAATAAGCCAGAGATCGAAGCGCCCTTCTCTAG 1140
      |||
Db      1662 TCCGAGCTGCTTCCAATTTGCTAATAATAAGCCAGAGATCGAAGCGCCCTTCTCTAG 1721
QY      1141 ACTGATGAGACTGGAACCCCAAGTCCATGCTGTGGCTGCCCTCTGCAAGAGTGGCTG 1200
      |||
Db      1722 ACTGATGAGACTGGAACCCCAAGTCCATGCTGTGGCTGCCCTCTGCAAGAGTGGCTG 1781
QY      1201 CTGCAGAACTGCCAAGCATCAGGCCCAATGTAACTCTGCAAGAGTGTCCAATCATTTG 1260
      |||
Db      1782 CTGCAGAACTGCCAAGCATCAGGCCCAATGTAACTCTGCAAGAGTGTCCAATCATTTG 1841
QY      1261 GATTGAGTACAGAGTCTAAAGCACTTTAATTATGACATCTGCCAAGCTGCTTTT 1320
      |||
Db      1842 GATTGAGTACAGAGTCTAAAGCACTTTAATTATGACATCTGCCAAGCTGCTTTT 1901
QY      1321 CTGTCGAGTTGCCAAAAGGCCATAAATGCACTATCCCATGTGGAATATTGCACTCCGA 1380
      |||
Db      1902 CTGTCGAGTTGCCAAAAGGCCATAAATGCACTATCCCATGTGGAATATTGCACTCCGA 1961
QY      1381 CTACATCAGGAGAAGATGTTGAGACTTTGCCAAGGTACTTAAAAACAATTTGGAACCA 1440
      |||
Db      1962 CTACATCAGGAGAAGATGTTGAGACTTTGCCAAGGTACTTAAAAACAATTTGGAACCA 2021
QY      1441 AAAGTATTTTGGCGAAGCATCCCGCAATGGGCTACCTGCAAGTGCAGACTGTCTTAGAGG 1500
      |||
Db      2022 AAAGTATTTTGGCGAAGCATCCCGCAATGGGCTACCTGCAAGTGCAGACTGTCTTAGAGG 2081
QY      1501 G 1501
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Db      2082 G 2082

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RESULT 4
US-09-949-016-2804
; Sequence 2804, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016

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; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2804
; LENGTH: 7070
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-2804

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Query Match      99.9%; Score 1499.4; DB 4; Length 7070;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1500; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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QY      1 TTTTACGAAAGCAGGCTGAGAGGTCAATACCTGAGTGGGAAAAATTGAACCTGCATCCG 60
      |||
Db      2096 TTCTACGAAAGCAGGCTGAGAGGTCAATACCTGAGTGGGAAAAATTGAACCTGCATCCG 2155
QY      61 CTGACTGGCAGAGAAAAATAGATGAGACCCCTTGAAGACTCCAGAACTTCAAGAGGCCA 120
      |||
Db      2156 CTGACTGGCAGAGAAAAATAGATGAGACCCCTTGAAGACTCCGGAACCTTCAAGAGGCCA 2215
QY      121 CGGATGAGCTGGAACCTCAAGCTGCGCCAAAGCTGAGGTGATCAAGGATCCGTGGACCCCG 180
      |||
Db      2216 CGGATGAGCTGGAACCTCAAGCTGCGCCAAAGCTGAGGTGATCAAGGATCCGTGGACCCCG 2275
QY      181 TGGCGATCTCCTCATTTGACTCTCTCCAAGATCACTCGAGAAAGTCAAGCACTTCGAG 240
      |||
Db      2276 TGGCGATCTCCTCATTTGACTCTCTCCAAGATCACTCGAGAAAGTCAAGCACTTCGAG 2335
QY      241 GAGAAATTGCGCCTTGAAGAAGACGTGAGCCACGTCAATGACCTTGTGCCAGCTTA 300
      |||
Db      2336 GAGAAATTGCGCCTTGAAGAAGACGTGAGCCACGTCAATGACCTTGTGCCAGCTTA 2395
QY      301 CCACTTTGGGCAATTCAGCTCTCAACCGTATACTCAGCACTCTGGAAGACTGAACACCA 360
      |||
Db      2396 CCACTTTGGGCAATTCAGCTCTCAACCGTATACTCAGCACTCTGGAAGACTGAACACCA 2455
QY      361 GATGGAAGCTTCTGCAAGTGGCCGTCGAGGACCGAGTCAAGCAGCTGCAAGCCACCA 420
      |||
Db      2456 GATGGAAGCTTCTGCAAGTGGCCGTCGAGGACCGAGTCAAGCAGCTGCAAGCCACCA 2515
QY      421 GGGACTTTGGTCCAGCATCTCAGCACTTTCTTTCCACGCTGTGCCAGGGTCCCTGGAGA 480
      |||
Db      2516 GGGACTTTGGTCCAGCATCTCAGCACTTTCTTTCCACGCTGTGCCAGGGTCCCTGGAGA 2575
QY      481 GAGCCATCTGCGCAAAACAAGTGCCCTAATAATCAACCAAGAGACTCAAAACAATTGCT 540
      |||
Db      2576 GAGCCATCTGCGCAAAACAAGTGCCCTAATAATCAACCAAGAGACTCAAAACAATTGCT 2635
QY      541 GGGACCATCCAAAAATGACAGAGCTTACCAAGTCTTTAGCTGACCTGAATAATGTACAGAT 600
      |||
Db      2636 GGGACCATCCAAAAATGACAGAGCTTACCAAGTCTTTAGCTGACCTGAATAATGTACAGAT 2695
QY      601 TCTCAGCTTATAGGACTGCGCATGAACTCCGAAGACTGCAGAAAGCCCTTGTCTTGATC 660
      |||
Db      2696 TCTCAGCTTATAGGACTGCGCATGAACTCCGAAGACTGCAGAAAGCCCTTGTCTTGATC 2755
QY      661 TCTTGAGCCTGTACAGTGCATGTGATGCTTGGACCAAGCAAACTCAAGCAAAATGACC 720
      |||
Db      2756 TCTTGAGCCTGTACAGTGCATGTGATGCTTGGACCAAGCAAACTCAAGCAAAATGACC 2815
QY      721 AGCCCATGGATATCTCTGACAGATTATTAATTGTTGACCACTATTATGACCGCTGGAGC 780
      |||
Db      2816 AGCCCATGGATATCTCTGACAGATTATTAATTGTTGACCACTATTATGACCGCTGGAGC 2875
QY      781 AAGAGCAACAATTTGGTCAACGTCCCTCTGCGTGGATATGTGTGAACTGGCTGC 840
      |||

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Db 2876 AAGAGCACAACAATTGGTCAACGTCCTCTCTGCGTGATATGTGTCTGAACCTGGCTGC 2935
QY 841 TGAATGTTTATGATACGGAGCAACAGGAGATCCGTGCTGCTTTTAAACTGGCA 900
Db 2936 TGAATGTTTATGATACGGAGCAACAGGAGATCCGTGCTGCTTTTAAACTGGCA 2995
QY 901 TCATTTCCCTGTGTAAAGCACATTTGGAAGACAGTACAGATACCTTTTCAAGCAAGTGG 960
Db 2996 TCATTTCCCTGTGTAAAGCACATTTGGAAGACAGTACAGATACCTTTTCAAGCAAGTGG 3055
QY 961 CAAGTTCAACAGGATTTGTGTACCAAGCGCAGGCTGGGCTCTTCTGTCATGATTTCTATCC 1020
Db 3056 CAAGTTCAACAGGATTTGTGTACCAAGCGCAGGCTGGGCTCTTCTGTCATGATTTCTATCC 3115
QY 1021 AAATTCGAAGACAGTTGGGTGAAGTTGCATCTTTGGGGGCAAGTAACATTGAGCCAAAGTG 1080
Db 3116 AAATTCGAAGACAGTTGGGTGAAGTTGCATCTTTGGGGGCAAGTAACATTGAGCCAAAGTG 3175
QY 1081 TCCGAGAGCTGCTTCCAAATTTGCTAATAATAAGCCAGAGATCGAAGCGCCCTCTTCTAG 1140
Db 3176 TCCGAGAGCTGCTTCCAAATTTGCTAATAATAAGCCAGAGATCGAAGCGCCCTCTTCTAG 3235
QY 1141 ACTGGATGAGACTGGAACCCCAATCCATGCTGTGTGCTGCCGCTCTGACAGAGTGGCTG 1200
Db 3236 ACTGGATGAGACTGGAACCCCAATCCATGCTGTGTGCTGCCGCTCTGACAGAGTGGCTG 3295
QY 1201 CTGCAGAAACTGCGCAAGCATCAGGCCAAATGTACATCTGCAAGAAGTGTCCAATCATTG 1260
Db 3296 CTGCAGAAACTGCGCAAGCATCAGGCCAAATGTACATCTGCAAGAAGTGTCCAATCATTG 3355
QY 1261 GATTCAGGTACAGAGATCTTAAAGCACTTAAATTATGACATCTGCCAAAGCTGCTTTT 1320
Db 3356 GATTCAGGTACAGAGATCTTAAAGCACTTAAATTATGACATCTGCCAAAGCTGCTTTT 3415
QY 1321 CTGCTCGAGTTGCAAAAGGCCATAAATGCACTATCCCATGCTGAATATTGCACTCCGA 1380
Db 3416 CTGCTCGAGTTGCAAAAGGCCATAAATGCACTATCCCATGCTGAATATTGCACTCCGA 3475
QY 1381 CTACATCAGAGAGAGATGTTGAGACTTTGCCAAGGTACTAAACAAATTTGGAACCA 1440
Db 3476 CTACATCAGAGAGAGATGTTGAGACTTTGCCAAGGTACTAAACAAATTTGGAACCA 3535
QY 1441 AAAGTATTTTTCGGAAGCATCCCGCAATGGGCTACCTGCCAGTGCAGACTGTCTTAGAG 1500
Db 3536 AAAGTATTTTTCGGAAGCATCCCGCAATGGGCTACCTGCCAGTGCAGACTGTCTTAGAG 3595
QY 1501 G 1501
Db 3596 G 3596
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RESULT 5
US-09-949-016-2805
; Sequence 2805, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: C1001307
; CURRENT APPLICATION NUMBER: US/09/949, 016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2805
; LENGTH: 7070
; TYPE: DNA
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; ORGANISM: Human
US-09-949-016-2805
Query Match 99.9%; Score 1499.4; DB 4; Length 7070;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1500; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1 TTCTAAGAAAGCAGGCTGAGGAGGTCAATACTGAGTGGGAAAAATGAACTGCATCCG 60
Db 2096 TTCTAAGAAAGCAGGCTGAGGAGGTCAATACTGAGTGGGAAAAATGAACTGCATCCG 2155
QY 61 CTGACTGGCAGAGAAAAATAGATGAGACCCCTTGAAGACTCCAGAACTTCAAGAGGCCA 120
Db 2156 CTGACTGGCAGAGAAAAATAGATGAGACCCCTTGAAGACTCCGGAACCTTCAAGAGGCCA 2215
QY 121 CGGATGAGCTGGACCTCAAGCTGCGCCAAAGCTGAGGTGATCAAGGATCCTGGCAGCCG 180
Db 2216 CGGATGAGCTGGACCTCAAGCTGCGCCAAAGCTGAGGTGATCAAGGATCCTGGCAGCCG 2275
QY 181 TGGGCGATCTCCTCATTTGACTCTCTCCAAGATCACTCGAAGAACTCAAGGACCTTGAG 240
Db 2276 TGGGCGATCTCCTCATTTGACTCTCTCCAAGATCACTCGAAGAACTCAAGGACCTTGAG 2335
QY 241 GAGAAATTGCGCCTCTGAAGAGAACGTGAGCCACGTCATATGACTTGTCTGCCAGCTTA 300
Db 2336 GAGAAATTGCGCCTCTGAAGAGAACGTGAGCCACGTCATATGACTTGTCTGCCAGCTTA 2395
QY 301 CCACCTTGGGCAATTCAGCTCTCAACGTTAATACCTCAGCACTCTGGAAGACCTGAACACCA 360
Db 2396 CCACCTTGGGCAATTCAGCTCTCAACGTTAATACCTCAGCACTCTGGAAGACCTGAACACCA 2455
QY 361 GATGGAAGCTTCTGAGGTGGCGCTGAGAGCCGAGTCAAGCACTGCATGAAGCCACCA 420
Db 2456 GATGGAAGCTTCTGAGGTGGCGCTGAGAGCCGAGTCAAGCACTGCATGAAGCCACCA 2515
QY 421 GGGACTTTGGTCCAGCATCTCAGCACTTCTTCCACGCTGTCCAGGGTCCCTGGGAGA 480
Db 2516 GGGACTTTGGTCCAGCATCTCAGCACTTCTTCCACGCTGTCCAGGGTCCCTGGGAGA 2575
QY 481 GAGCCATCTCGCCAAACAAAGTGCCTACTATATCAACCAAGAGACTCAAACTTGTCT 540
Db 2576 GAGCCATCTCGCCAAACAAAGTGCCTACTATATCAACCAAGAGACTCAAACTTGTCT 2635
QY 541 GGGACCATCCCAAAATGACAGAGCTCTACAGTCTTTAGCTGACCTGAATATGTGAGAT 600
Db 2636 GGGACCATCCCAAAATGACAGAGCTCTACAGTCTTTAGCTGACCTGAATATGTGAGAT 2695
QY 601 TCTCAGCTTATAGGACTGCCATGTAACCTCCGAAGACTGCAGAGGCCCTTGTGGATC 660
Db 2696 TCTCAGCTTATAGGACTGCCATGTAACCTCCGAAGACTGCAGAGGCCCTTGTGGATC 2755
QY 661 TCTTGAAGCTGTACGCTGCATGTGATGCTTTGACCAGACAACTCAAGCAAAATGACC 720
Db 2756 TCTTGAAGCTGTACGCTGCATGTGATGCTTTGACCAGACAACTCAAGCAAAATGACC 2815
QY 721 AGCCCATGATATCTGCAAGTATTAATTTGTTGACCACTAATTTATGACCGCCTGAGC 780
Db 2816 AGCCCATGATATCTGCAAGTATTAATTTGTTGACCACTAATTTATGACCGCCTGAGC 2875
QY 781 AAGAGCAACAATTTGTTGTAACGCTCCCTCTGCGTGATATGTCTGAACTGGCTGC 840
Db 2876 AAGAGCAACAATTTGTTGTAACGCTCCCTCTGCGTGATATGTCTGAACTGGCTGC 2935
QY 841 TGAATGTTTATGATACGGAGCAACAGGAGATCCGTGCTGCTTTTAAACTGGCA 900
Db 2936 TGAATGTTTATGATACGGAGCAACAGGAGATCCGTGCTGCTTTTAAACTGGCA 2995
QY 901 TCATTTCCCTGTGTAAAGCACATTTGGAAGACAGTACAGATACCTTTTCAAGCAAGTGG 960
Db 2996 TCATTTCCCTGTGTAAAGCACATTTGGAAGACAGTACAGATACCTTTTCAAGCAAGTGG 3055
QY 961 CAAGTTCAACAGGATTTGTGTACCAAGCGCAGGCTGGGCTCTTCTGTCATGATTTCTATCC 1020
Db 3056 CAAGTTCAACAGGATTTGTGTACCAAGCGCAGGCTGGGCTCTTCTGTCATGATTTCTATCC 1020
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Db 3056 CAAGTTCACAGAGATTGTCAGCCAGCGAGCGCTGGCCCTCTTCTGCATGATTCTATCC 3115
QY 1021 AAATTCAGACAGATTGGGTGAAGTTGCACTCTTTGGGGCAGTAACATTGAGCCAACTG 1080
Db 3116 AAATTCAGACAGATTGGGTGAAGTTGCACTCTTTGGGGCAGTAACATTGAGCCAACTG 3175
QY 1081 TCCGAGCTGCTTCCCAATTTGCTAATAAAGCCAGAGATCGAAGCGCCCTCTTCTAG 1140
Db 3176 TCCGAGCTGCTTCCCAATTTGCTAATAAAGCCAGAGATCGAAGCGCCCTCTTCTAG 3235
QY 1141 ACTGATGAGACTGGAACCCCACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1200
Db 3236 ACTGATGAGACTGGAACCCCACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 3295
QY 1201 CTGCAGAACTGCCAAGCATCAGGCCAAATGTAACATCTGCAGAGAGTGTCCAATCATG 1260
Db 3296 CTGCAGAACTGCCAAGCATCAGGCCAAATGTAACATCTGCAGAGAGTGTCCAATCATG 3355
QY 1261 GATTCAAGTACAGAGTCTAAAGCACTTAATTAATGACATCTGCCAAAGCTGCTTTT 1320
Db 3356 GATTCAAGTACAGAGTCTAAAGCACTTAATTAATGACATCTGCCAAAGCTGCTTTT 3415
QY 1321 CTGCTGAGTTGCAGAAAGCCATAAATGCACTATCCCATGCTGTAATTTGCACTCCGA 1380
Db 3416 CTGCTGAGTTGCAGAAAGCCATAAATGCACTATCCCATGCTGTAATTTGCACTCCGA 3475
QY 1381 CTACATCAGGAGAGATGTTGAGACTTTGCCAAGTACTTAATAAACAATTTGCAACCA 1440
Db 3476 CTACATCAGGAGAGATGTTGAGACTTTGCCAAGTACTTAATAAACAATTTGCAACCA 3535
QY 1441 AAAGTATTTTGCAGAGCATCCCGAATGGGCTACCTGCCAGTGCAGACTGTCTTAGAGG 1500
Db 3536 AAAGTATTTTGCAGAGCATCCCGAATGGGCTACCTGCCAGTGCAGACTGTCTTAGAGG 1500
QY 1501 G 1501
Db 3596 G 3596

RESULT 6

US-09-949-016-2806
; Sequence 2806, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2806
; LENGTH: 7070
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-2806

Query Match 99.9%; Score 1499.4; DB 4; Length 7070;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1500; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TTCTACGAAAGCAGGCTGAGAGGTCAATACTGAGTGGGAAAAATTGAACTGCACTCCG 60
Db 2096 TTCTACGAAAGCAGGCTGAGAGGTCAATACTGAGTGGGAAAAATTGAACTGCACTCCG 2155
QY 61 CTGACTGGCAGAGAAAAATAGATGAGACCTTGAAGAAGCTCCAGGAAGCTTCAAGAGGCCA 120

Db 2156 CTGACTGGCAGAGAAAAATAGATGAGACCTTGAAGAAGCTCCGGAAGCTTCAAGAGGCCA 2215
QY 121 CGATGAGCTGGAACCTCAAGCTGCGCCAAAGTGAAGTGAATCAAGGATCTTGGCAGCCCG 180
Db 2216 CGATGAGCTGGAACCTCAAGCTGCGCCAAAGTGAAGTGAATCAAGGATCTTGGCAGCCCG 2275
QY 181 TGGGCGATCTCTCATTTGACTCTCTCCAAGATCACTCGAAGAAATCAAGGCACTTCGAG 240
Db 2276 TGGGCGATCTCTCATTTGACTCTCTCCAAGATCACTCGAAGAAATCAAGGCACTTCGAG 2335
QY 241 GAGAAATTGCGCCTCTGAAAAGAGAACGTGACCGACGTAATGACCTTGCTGCGCAGCTTA 300
Db 2336 GAGAAATTGCGCCTCTGAAAAGAGAACGTGACCGACGTAATGACCTTGCTGCGCAGCTTA 2395
QY 301 CCACTTTGGGCAATTCACTCTCACCGTATAACCTCAGCACTCTGGAAGACCTGAACACCA 360
Db 2396 CCACTTTGGGCAATTCACTCTCACCGTATAACCTCAGCACTCTGGAAGACCTGAACACCA 2455
QY 361 GATGGAAGCTTCTGAGGTGCGCGTCAGAGACCGAGTCAGGCACTGCATGAAAGCCCA 420
Db 2456 GATGGAAGCTTCTGAGGTGCGCGTCAGAGACCGAGTCAGGCACTGCATGAAAGCCCA 2515
QY 421 GGGACTTTGGTCCAGCATCTCAGCACTTTCTTCCACGCTGTCTCCAGGGTCCCTGGAGA 480
Db 2516 GGGACTTTGGTCCAGCATCTCAGCACTTTCTTCCACGCTGTCTCCAGGGTCCCTGGAGA 2575
QY 481 GAGCCATCTCGCCAAACAAAGTGCCCTACTATATCAACCAAGAGACTCAAAACAATTTGCT 540
Db 2576 GAGCCATCTCGCCAAACAAAGTGCCCTACTATATCAACCAAGAGACTCAAAACAATTTGCT 2635
QY 541 GGGACCATCCCAAAATGACAGAGCTCTACAGCTTTTAGCTGACCTGAATAATGTCAAGAT 600
Db 2636 GGGACCATCCCAAAATGACAGAGCTCTACAGCTTTTAGCTGACCTGAATAATGTCAAGAT 2695
QY 601 TCTCAGCTTATAGACTGCCATGAACCTCCGAAGACTGCAAGAGCCCTTGTCTTGATC 660
Db 2696 TCTCAGCTTATAGACTGCCATGAACCTCCGAAGACTGCAAGAGCCCTTGTCTTGATC 2755
QY 661 TCTTGAAGCTTCAAGCTGATGATGCTGCTTGAACCAAGCAAACTCAAGCAAAATGACC 720
Db 2756 TCTTGAAGCTTCAAGCTGATGATGCTGCTTGAACCAAGCAAACTCAAGCAAAATGACC 2815
QY 721 AGCCATGATATCTGACAGATTAATTTGTTGACCACTATTATGACCGCCTGGAGC 780
Db 2816 AGCCATGATATCTGACAGATTAATTTGTTGACCACTATTATGACCGCCTGGAGC 2875
QY 781 AAGAGCAACAATTTGTTCAACGTCCTCTGCGTGATATGTTGCAACTGGCTGC 840
Db 2876 AAGAGCAACAATTTGTTCAACGTCCTCTGCGTGATATGTTGCAACTGGCTGC 2935
QY 841 TGAATGTTTATGATACGGGACGAACAGGAGATCCGTCTGTCTTTTAAACTGGCA 900
Db 2936 TGAATGTTTATGATACGGGACGAACAGGAGATCCGTCTGTCTTTTAAACTGGCA 2995
QY 901 TCATTTCCCTGTGTAAGCACATTTGGAAGACAAGTACAGATACCTTTTCAAGCAAGTG 960
Db 2996 TCATTTCCCTGTGTAAGCACATTTGGAAGACAAGTACAGATACCTTTTCAAGCAAGTG 3055
QY 961 CAAGTTCAACAGATTTTGTGACCAAGCGAGGCTGGGCTCTTCTGCATGATTTATCC 1020
Db 3056 CAAGTTCAACAGATTTTGTGACCAAGCGAGGCTGGGCTCTTCTGCATGATTTATCC 3115
QY 1021 AAATTCAGACAGTTGGGTGAAGTTGCACTCTTTGGGGCAGTAACATTGAGCCAACTG 1080
Db 3116 AAATTCAGACAGTTGGGTGAAGTTGCACTCTTTGGGGCAGTAACATTGAGCCAACTG 3175
QY 1081 TCCGAGCTGCTTCCCAATTTGCTAATAAAGCCAGAGATCGAAGCGCCCTCTTCTAG 1140
Db 3176 TCCGAGCTGCTTCCCAATTTGCTAATAAAGCCAGAGATCGAAGCGCCCTCTTCTAG 3235
QY 1141 ACTGATGAGACTGGAACCCCACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1200

Db 3236 ACTGATGAGACTGGAACCCAGTCCATGCTGTGGCTGCCCGTCTGCAAGAGTGCGTG 3295
Qy 1201 CTGAGAACTGCCAAGCATCAGGCCCAAATGTAACATCTGCAAAAGAGTGTCCAATCATTTG 1260
Db 3296 CTGAGAACTGCCAAGCATCAGGCCCAAATGTAACATCTGCAAAAGAGTGTCCAATCATTTG 3355
Qy 1261 GATTGAGTACAGAGTCTAAAGCACTTAAATATATGACATCTGCCAAAGCTGCTTTTTTT 1320
Db 3356 GATTGAGTACAGAGTCTAAAGCACTTAAATATATGACATCTGCCAAAGCTGCTTTTTTT 3415
Qy 1321 CTGCTGAGTTGCCAAAAGGCCATAAATGCACTATCCCATGTGGAATATTTGCACTCCGA 1380
Db 3416 CTGCTGAGTTGCCAAAAGGCCATAAATGCACTATCCCATGTGGAATATTTGCACTCCGA 3475
Qy 1381 CTACATCAGAGAGAGATGTTGAGACTTTGCCAAGGTACTAAAAAACAATTTGCAACCA 1440
Db 3476 CTACATCAGAGAGAGATGTTGAGACTTTGCCAAGGTACTAAAAAACAATTTGCAACCA 3535
Qy 1441 AAAGTATTTTGGCAAGCATCCCCGAATGGGCTACCTGCCAGTGCAGACTGTCTTAGAGG 1500
Db 3536 AAAGTATTTTGGCAAGCATCCCCGAATGGGCTACCTGCCAGTGCAGACTGTCTTAGAGG 3595
Qy 1501 G 1501
Db 3596 G 3596

RESULT 7
US-09-949-016-2807
; Sequence 2807, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: C1001307
; CURRENT APPLICATION NUMBER: US/09/949, 016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241, 755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237, 768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231, 498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2807
; LENGTH: 7070
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-2807

Query Match 99.9%; Score 1499.4; DB 4; Length 7070;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1500; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
Qy 1 TTCTACGAAAGCAGGCTGAGAGGTCACTAGTGGGAAAAATTGAACCTGCACTCCG 60
Db 2096 TTCTACGAAAGCAGGCTGAGAGGTCACTAGTGGGAAAAATTGAACCTGCACTCCG 2155
Qy 61 CTGACTGGCAGAGAAAATAGATGAGACCCTTGAAGAAGCTCCAGAACTTCAAGAGGCCA 120
Db 2156 CTGACTGGCAGAGAAAATAGATGAGACCCTTGAAGAAGCTCCAGAACTTCAAGAGGCCA 2215
Qy 121 CGGATGAGCTGGAACCTCAAGCTGCCCAAAGCTGAGGTGATCAAGGATCTTGCAAGCCCG 180
Db 2216 CGGATGAGCTGGAACCTCAAGCTGCCCAAAGCTGAGGTGATCAAGGATCTTGCAAGCCCG 2275
Qy 181 TGGGCGATCTCTCATTTGACTCTCTCAAGATCACTCGAGAAAGTCAAGGCACTTCGAG 240
Db 2276 TGGGCGATCTCTCATTTGACTCTCTCAAGATCACTCGAGAAAGTCAAGGCACTTCGAG 2335
Qy 241 GAGAAATTCGCGCTCTGAAAGAGAACGTGAGCCAAGTCAATGACCTTGCTGCGCAGCTTA 300

Db 2336 GAGAAATTCGCGCTCTGAAAGAGAACGTGAGCCACGTCATGACCTTGCTGCGCAGCTTA 2395
Qy 301 CCACCTTGGGATTCAGCTCTCACCGTATAACCTCAGCACTCTGGAAGACCTGAACACCA 360
Db 2396 CCACCTTGGGATTCAGCTCTCACCGTATAACCTCAGCACTCTGGAAGACCTGAACACCA 2455
Qy 361 GATGGAAGCTTCTGCAAGGTGGCCGTGAGGAGACCGAGTCAAGGCACTGCAATGAAGCCACA 420
Db 2456 GATGGAAGCTTCTGCAAGGTGGCCGTGAGGAGACCGAGTCAAGGCACTGCAATGAAGCCACA 2515
Qy 421 GGGACTTTGGTCCAGCATCTCAGCACTTTCTTCCACGCTGTGTCAGGGTCCCTGGGAGA 480
Db 2516 GGGACTTTGGTCCAGCATCTCAGCACTTTCTTCCACGCTGTGTCAGGGTCCCTGGGAGA 2575
Qy 481 GAGCCATTCGCCAAACAAAGTGCCCTAATATATCAACACGAGACTCAAAACACTTGCT 540
Db 2576 GAGCCATTCGCCAAACAAAGTGCCCTAATATATCAACACGAGACTCAAAACACTTGCT 2635
Qy 541 GGGACCATCCCAAAATGACAGAGCTTAACAGTCTTTAGCTGACCTGAATATGTCAGAT 600
Db 2636 GGGACCATCCCAAAATGACAGAGCTTAACAGTCTTTAGCTGACCTGAATATGTCAGAT 2695
Qy 601 TCTCAGCTTATAGGACTGCCATGAAACTCCGAAGACTGCAGAGAGCCCTTGCTTGATC 660
Db 2696 TCTCAGCTTATAGGACTGCCATGAAACTCCGAAGACTGCAGAGAGCCCTTGCTTGATC 2755
Qy 661 TCTTGAGCTGTGAGCTGCATGTGATGCTTGAGACCAAGCAACCTCAAGCAAAATGACC 720
Db 2756 TCTTGAGCTGTGAGCTGCATGTGATGCTTGAGACCAAGCAACCTCAAGCAAAATGACC 2815
Qy 721 AGCCCATGATATCTCGAGATTATTAATGTTTGACCACTATTAATGACCGCCTGAGC 780
Db 2816 AGCCCATGATATCTCGAGATTATTAATGTTTGACCACTATTAATGACCGCCTGAGC 2875
Qy 781 AAGAGCACAACATTTGTCACAGCTCCTCTGCGTGATATGTCGAACCTGGCTGC 840
Db 2876 AAGAGCACAACATTTGTCACAGCTCCTCTGCGTGATATGTCGAACCTGGCTGC 2935
Qy 841 TGAATGTTATGATACGGGACGAACAGGAGATCCGTGCTCTTTTAAACTGGCA 900
Db 2936 TGAATGTTATGATACGGGACGAACAGGAGATCCGTGCTCTTTTAAACTGGCA 2995
Qy 901 TCATTTCCCTGTGTAAGCACATTTGGAAGACAAGTACAGATACCTTTTCAAGCAAGTG 960
Db 2996 TCATTTCCCTGTGTAAGCACATTTGGAAGACAAGTACAGATACCTTTTCAAGCAAGTG 3055
Qy 961 CAAGTTCACAGATTTTGTGACCAAGCAGGCTGGCCCTCTTCGATGATTCTATCC 1020
Db 3056 CAAGTTCACAGATTTTGTGACCAAGCAGGCTGGCCCTCTTCGATGATTCTATCC 3115
Qy 1021 AAATTCACAGACAGTTGGTGAAGTTCATCCTTTGGGGCAGTAACATGAGCCAAAGTG 1080
Db 3116 AAATTCACAGACAGTTGGTGAAGTTCATCCTTTGGGGCAGTAACATGAGCCAAAGTG 3175
Qy 1081 TCCGAGCTGCTTCCAATTTGCTAATATAAGCCAGAGATCGAAGCGCCCTCTCTAG 1140
Db 3176 TCCGAGCTGCTTCCAATTTGCTAATATAAGCCAGAGATCGAAGCGCCCTCTCTAG 3235
Qy 1141 ACTGATGAGACTGAAACCCAGTCAATGCTGCTGCGTCCCTCTGCAAGAGTGCTG 1200
Db 3236 ACTGATGAGACTGAAACCCAGTCAATGCTGCTGCGTCCCTCTGCAAGAGTGCTG 3295
Qy 1201 CTGAGAACTGCCAAGCATCAGGCCAAATGTAACATCTGCAAAAGTGTCCAATCATTTG 1260
Db 3296 CTGAGAACTGCCAAGCATCAGGCCAAATGTAACATCTGCAAAAGTGTCCAATCATTTG 3355
Qy 1261 GATTGAGTACAGAGTCTAAAGCACTTAATATGACATCTGCCAAAGCTGCTTTTTTT 1320
Db 3356 GATTGAGTACAGAGTCTAAAGCACTTAATATGACATCTGCCAAAGCTGCTTTTTTT 3415
Qy 1321 CTGCTGAGTTGCAAAAGCCATAAATGCACTATCCCATGTGGAATATTTGCACTCCGA 1380

Db 3416 CTGTCGAGTTCGCAAAAGGCCATAAAATGCACTATCCATGATGTAATATTCGACTCCGA 3475
QY 1381 CTACATCAGAGAGAGATGTTGAGACTTTGCCAAGTACTAAAAACAATTTGGAACCA 1440
Db 3476 CTACATCAGAGAGAGATGTTGAGACTTTGCCAAGTACTAAAAACAATTTGGAACCA 3535
QY 1441 AAAGTATTTTGGCGAAGCATCCCGAATGGGCTACCTGCCAGTGCAGACTGTCTTAGAGG 1500
Db 3536 AAAGTATTTTGGCGAAGCATCCCGAATGGGCTACCTGCCAGTGCAGACTGTCTTAGAGG 3595
QY 1501 G 1501
Db 3596 G 3596

RESULT 8
US-09-949-016-2808
; Sequence 2808, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; PRIORITY FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2808
; LENGTH: 7070
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-2808

Query Match 99.9%; Score 1499.4; DB 4; Length 7070;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1500; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TTCTACGAAAGCAGGCTGAGGAGTCAATTACTGAGTGGAAAAATTGAACCTGCACCTCCG 60
Db 2096 TTCTACGAAAGCAGGCTGAGGAGTCAATTACTGAGTGGAAAAATTGAACCTGCACCTCCG 2155
QY 61 CTGACTGGCAGAGAAAAATAGATGAGACCTTGAAAGACTCCAGAACTTCAAGAGGCCA 120
Db 2156 CTGACTGGCAGAGAAAAATAGATGAGACCTTGAAAGACTCCAGAACTTCAAGAGGCCA 2215
QY 121 CGGATGAGCTGGAACCTCAAGCTGCGCCAAAGCTGAGGTGATCAAGGATCCTGGACCCCG 180
Db 2216 CGGATGAGCTGGAACCTCAAGCTGCGCCAAAGCTGAGGTGATCAAGGATCCTGGACCCCG 2275
QY 181 TGGGCGATCTCTCATTTGACTCTCTCCAAGATCACTCGAGAAAAAGTCAAGGCACTTCGAG 240
Db 2276 TGGGCGATCTCTCATTTGACTCTCTCCAAGATCACTCGAGAAAAAGTCAAGGCACTTCGAG 2335
QY 241 GAGAAATTGCGCCTCTGAAAGAGAAAGTGAGCCACGTCAATGACCTTGTGCGCCAGCTTA 300
Db 2336 GAGAAATTGCGCCTCTGAAAGAGAAAGTGAGCCACGTCAATGACCTTGTGCGCCAGCTTA 2395
QY 301 CCACTTTGGGCATTGAGCTCTCAACCGTATTAACCTCAGCACTCTGGAAGACCTGAAACACCA 360
Db 2396 CCACTTTGGGCATTGAGCTCTCAACCGTATTAACCTCAGCACTCTGGAAGACCTGAAACACCA 2455
QY 361 GATGGAAGCTTCTGCAAGTGGCCGTGAGAGACCGAGTCAAGGCACTGATGAAGCCACACA 420
Db 2456 GATGGAAGCTTCTGCAAGTGGCCGTGAGAGACCGAGTCAAGGCACTGATGAAGCCACACA 2515
QY 421 GGGACTTTGTTCAGCAATCTCAGCACTTTCTTTCCACGCTGTGTCCAGGGTCCCTGGGAGA 480

Db 2516 GGGACTTTGTTCAGCAATCTCAGCACTTTCTTTCCACGCTGTGTCCAGGGTCCCTGGGAGA 2575
QY 481 GAGCCATCTCGCCAAACAAGTGCCCTACTATATCAACCAAGAGCTCAACAACCTTGCT 540
Db 2576 GAGCCATCTCGCCAAACAAGTGCCCTACTATATCAACCAAGAGCTCAACAACCTTGCT 2635
QY 541 GGGACCATCCCAAAATGACAGAGCTTACAGTCTTTAGCTGACCTGAATATGTACAGAT 600
Db 2636 GGGACCATCCCAAAATGACAGAGCTTACAGTCTTTAGCTGACCTGAATATGTACAGAT 2695
QY 601 TCTCAGCTTTATAGACTGCGCATGAAACTCCGAAGCTGCAGAAAGCCCTTGTGCTGATC 660
Db 2696 TCTCAGCTTTATAGACTGCGCATGAAACTCCGAAGCTGCAGAAAGCCCTTGTGCTGATC 2755
QY 661 TCTTGAAGCTGTGAGCTGCAATGTGATGCTTGAACCAAGCACTCAAGCAAAATGACC 720
Db 2756 TCTTGAAGCTGTGAGCTGCAATGTGATGCTTGAACCAAGCACTCAAGCAAAATGACC 2815
QY 721 AGCCCATGATATCTCGAGATTAATTAATGTTTGAACCACTATTATGACCGCTGAGC 780
Db 2816 AGCCCATGATATCTCGAGATTAATTAATGTTTGAACCACTATTATGACCGCTGAGC 2875
QY 781 AAGAGCAACAATTTGGTCAACGTCCCTCTGTGCTGATATGTGTGAACCTGGCTGC 840
Db 2876 AAGAGCAACAATTTGGTCAACGTCCCTCTGTGCTGATATGTGTGAACCTGGCTGC 2935
QY 841 TGAATGTTTATGATACGGGACGAACAGGAGATCCGTGCTGTCTTTTAAACTGGCA 900
Db 2936 TGAATGTTTATGATACGGGACGAACAGGAGATCCGTGCTGTCTTTTAAACTGGCA 2995
QY 901 TCATTTCCCTGTGTAAAGCACATTTGGAAGCAAGTACAGATACCTTTTCAAGCAAGTGG 960
Db 2996 TCATTTCCCTGTGTAAAGCACATTTGGAAGCAAGTACAGATACCTTTTCAAGCAAGTGG 3055
QY 961 CAAGTTCAACAGATTTTGTGACCAAGGAGGCTGGCCCTCTCTGATGATTTCTATCC 1020
Db 3056 CAAGTTCAACAGATTTTGTGACCAAGGAGGCTGGCCCTCTCTGATGATTTCTATCC 3115
QY 1021 AAATTCGAAGACAGTTGGGTGAAGTTCATCCTTTGGGGGAGTAAACATTGAGCCAAAGT 1080
Db 3116 AAATTCGAAGACAGTTGGGTGAAGTTCATCCTTTGGGGGAGTAAACATTGAGCCAAAGT 3175
QY 1081 TCCGAGCTGCTTCCAATTTGCTAATAATAAGCCAGAGATCGAAGCGCCCTCTCTAG 1140
Db 3176 TCCGAGCTGCTTCCAATTTGCTAATAATAAGCCAGAGATCGAAGCGCCCTCTCTAG 3235
QY 1141 ACTGATGAGACTGGAACCCCAAGTCCATGCTGTGCTGCCCTCTGCAAGAGTGGCTG 1200
Db 3236 ACTGATGAGACTGGAACCCCAAGTCCATGCTGTGCTGCCCTCTGCAAGAGTGGCTG 3295
QY 1201 CTGCAAAAACCTGCCAAGCATCAGGCCAAATGTAACATCTGCAAAAGAGTGTCCAATCAT 1260
Db 3296 CTGCAAAAACCTGCCAAGCATCAGGCCAAATGTAACATCTGCAAAAGAGTGTCCAATCAT 3355
QY 1261 GATTCAAGGTACAGAGTCTTAAAGCACTTTAATATGACATCTGCCAAGCTGCTTTT 1320
Db 3356 GATTCAAGGTACAGAGTCTTAAAGCACTTTAATATGACATCTGCCAAGCTGCTTTT 3415
QY 1321 CTGCTCAGTTGCAAAAAGCCATATAAATGCACTATCCCATGTGGAATAATTGCACTCCGA 1380
Db 3416 CTGCTCAGTTGCAAAAAGCCATATAAATGCACTATCCCATGTGGAATAATTGCACTCCGA 3475
QY 1381 CTACATCAGAGAGAGATGTTCCAGACTTGGCCAAAGTACTATAAACAACAATTTGGAACCA 1440
Db 3476 CTACATCAGAGAGAGATGTTCCAGACTTGGCCAAAGTACTATAAACAACAATTTGGAACCA 3535
QY 1441 AAAGTATTTTGGCAAGCATCCCGCAATGGGCTACCTGCCAGTGCAGACTGTCTTAGAGG 1500
Db 3536 AAAGTATTTTGGCAAGCATCCCGCAATGGGCTACCTGCCAGTGCAGACTGTCTTAGAGG 3595
QY 1501 G 1501

Db 3596 G 3596

RESULT 9
US-09-949-016-2809
; Sequence 2809, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FASTSEQ for Windows Version 4.0
; SEQ ID NO 2809
; LENGTH: 7070
; TYPE: DNA
; ORGANISM: Human
; US-09-949-016-2809

Query Match 99.9%; Score 1499.4; DB 4; Length 7070;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1500; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TTCTACGAAAGCAGGCTGAGGAGTCAATAGTGGGAAAAATTGAACCTGCACCTCCG 60
DB 2096 TTCTACGAAAGCAGGCTGAGGAGTCAATAGTGGGAAAAATTGAACCTGCACCTCCG 2155

QY 61 CTGACTGGCAGAGAAAAATAGATGAGACCTTGAAAGACTCCAGAACTTCAAGAGGCCA 120
DB 2156 CTGACTGGCAGAGAAAAATAGATGAGACCTTGAAAGACTCCGGAACCTTCAAGAGGCCA 2215

QY 121 CGGATGAGCTGGACCTCAAGCTGGCCCAAGCTGAGGTGATCAAGGATCCTGGCAGCCCG 180
DB 2216 CGGATGAGCTGGACCTCAAGCTGGCCCAAGCTGAGGTGATCAAGGATCCTGGCAGCCCG 2275

QY 181 TGGCGCATCTCCTCATTTGACTCTCTCCAAGATCACCTCGAGAACTCAAGGCACTTCGAG 240
DB 2276 TGGCGCATCTCCTCATTTGACTCTCTCCAAGATCACCTCGAGAACTCAAGGCACTTCGAG 2335

QY 241 GAGAAATTCGCGCTCTGAAGAGAAAGTGAGCCACGTCATGACTTGTCTGCCAGCTTA 300
DB 2336 GAGAAATTCGCGCTCTGAAGAGAAAGTGAGCCACGTCATGACTTGTCTGCCAGCTTA 2395

QY 301 CCACTTTGGGCATTCAAGCTCTCAAGCTATTAACCTCAGCACTTGGAAGACCTGAACACCA 360
DB 2396 CCACTTTGGGCATTCAAGCTCTCAAGCTATTAACCTCAGCACTTGGAAGACCTGAACACCA 2455

QY 361 GATGGAAGCTTCTGCAAGTGGCCGTCAGAGACCGAGTCAGGCAAGCTGCATGAAGCCACA 420
DB 2456 GATGGAAGCTTCTGCAAGTGGCCGTCAGAGACCGAGTCAGGCAAGCTGCATGAAGCCACA 2515

QY 421 GGAATTTGGTCCAGCATCTCAACAATTCTTCCACGCTCTGCCAGGCTCCCTGGAGA 480
DB 2516 GGAATTTGGTCCAGCATCTCAACAATTCTTCCACGCTCTGCCAGGCTCCCTGGAGA 2575

QY 481 GAGGCATCTCGCCAAACAAGTCCCTACTATATCAACCAAGCACTCAAAACAATTGCT 540
DB 2576 GAGGCATCTCGCCAAACAAGTCCCTACTATATCAACCAAGCACTCAAAACAATTGCT 2635

QY 541 GGAACCATCCCAAAATGACAGAGCTTACCAAGTCTTAGCTGACTGAATAATGTACAGAT 600
DB 2636 GGAACCATCCCAAAATGACAGAGCTTACCAAGTCTTAGCTGACTGAATAATGTACAGAT 2695

QY 601 TCTCAGCTTATAGGACTGCATGAAACTCCGAAAGACTGCAGAAAGCCCTTTGCTTGATC 660

DB 2696 TCTCAGCTTATAGGACTGCATGAAACTCCGAAAGACTGCAGAAAGCCCTTTGCTTGATC 2755

QY 661 TCTTGAGCCTGTACAGCTGCATGTGATGCTTGGACCAGACAACTCAAGCAAAATGACC 720
DB 2756 TCTTGAGCCTGTACAGCTGCATGTGATGCTTGGACCAGACAACTCAAGCAAAATGACC 2815

QY 721 AGCCCATGATATCTCTGACAGTATTAATTGTTGACCACTATTTATGACCGCCTGAGC 780
DB 2816 AGCCCATGATATCTCTGACAGTATTAATTGTTGACCACTATTTATGACCGCCTGAGC 2875

QY 781 AAGAGCAACAATTTGGTCAACGCTCCTCTCTGCGTGATATGTCTGAACCTGGCTGC 840
DB 2876 AAGAGCAACAATTTGGTCAACGCTCCTCTCTGCGTGATATGTCTGAACCTGGCTGC 2935

QY 841 TGAATGTTATGATACGGACGAGACAGGAGATCCGTCTCTTTTAAACTGGCA 900
DB 2936 TGAATGTTATGATACGGACGAGACAGGAGATCCGTCTCTTTTAAACTGGCA 2995

QY 901 TCATTTCCCTGTGTAAGACATTTGGAAGACAGTACAGATACCTTTCAAGCAAGTGG 960
DB 2996 TCATTTCCCTGTGTAAGACATTTGGAAGACAGTACAGATACCTTTCAAGCAAGTGG 3055

QY 961 CAAGTTCAACAGATTTTGTGACCAAGCCAGGCTGGGCTCTTCTGCATGATCTATCC 1020
DB 3056 CAAGTTCAACAGATTTTGTGACCAAGCCAGGCTGGGCTCTTCTGCATGATCTATCC 3115

QY 1021 AAATTCACAAGACAGTTGGGTGAGTTCATCCTTTGGGGGCGAGTAACATTGAGCCAAAGTG 1080
DB 3116 AAATTCACAAGACAGTTGGGTGAGTTCATCCTTTGGGGGCGAGTAACATTGAGCCAAAGTG 3175

QY 1081 TCCGAGCTGCTTCCAAATTTGCTAATAATAAGCCAGAGATCGAAGCGCCCTCTTCTCCTAG 1140
DB 3176 TCCGAGCTGCTTCCAAATTTGCTAATAATAAGCCAGAGATCGAAGCGCCCTCTTCTCCTAG 3235

QY 1141 ACTGATGAGACTGGAACCCCAAGTCCATGCTGTGCTGCCCTCTGCACAGAGTGAGCTG 1200
DB 3236 ACTGATGAGACTGGAACCCCAAGTCCATGCTGTGCTGCCCTCTGCACAGAGTGAGCTG 3295

QY 1201 CTGCAGAAACTGCCAAGCATCAGGCCCAATGTACATCTGCAAGAAGTGTCCAATCATTG 1260
DB 3296 CTGCAGAAACTGCCAAGCATCAGGCCCAATGTACATCTGCAAGAAGTGTCCAATCATTG 3355

QY 1261 GATTCAAGTACAGAGTCTAAAGCACTTAATTATGACATCTGCCAAAGCTGCTTTT 1320
DB 3356 GATTCAAGTACAGAGTCTAAAGCACTTAATTATGACATCTGCCAAAGCTGCTTTT 3415

QY 1321 CTGTCAGTTCAGAAAAGGCCATAAATGCACTATCCCATGTGGAATATTGCACTCCGA 1380
DB 3416 CTGTCAGTTCAGAAAAGGCCATAAATGCACTATCCCATGTGGAATATTGCACTCCGA 3475

QY 1381 CTACATCAGAGAGAGATGTTGAGACTTTGCCAAGTACTAATAAACAATTTGGAACCA 1440
DB 3476 CTACATCAGAGAGAGATGTTGAGACTTTGCCAAGTACTAATAAACAATTTGGAACCA 3535

QY 1441 AAAGTATTTTGCAGAGCATCCCGCAATGGGCTACCTGCCAGTGCAGACTGTCTTAGAG 1500
DB 3536 AAAGTATTTTGCAGAGCATCCCGCAATGGGCTACCTGCCAGTGCAGACTGTCTTAGAG 3595

QY 1501 G 1501
DB 3596 G 3596

RESULT 10
US-09-949-016-2810
; Sequence 2810, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307

; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2810
; LENGTH: 7070
; TYPE: DNA
; ORGANISM: Human
; US-09-949-016-2810

Query Match 99.9%; Score 1499.4; DB 4; Length 7070;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1500; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TTCTACGAAGCAGGCTGAGAGGCTCAATACTGAGTGGGAAAAATTGAACTGCACTCCG 60
Db 2096 TTCTACGAAGCAGGCTGAGAGGCTCAATACTGAGTGGGAAAAATTGAACTGCACTCCG 2155
QY 61 CTGACTGGCAGAGAAAAATAGATGAGACCCCTTGAAGAATCTCCAGAACTTCAAGAGGCCA 120
Db 2156 CTGACTGGCAGAGAAAAATAGATGAGACCCCTTGAAGAATCTCCGGAACCTTCAAGAGGCCA 2215
QY 121 CGGATGAGCTGAGACCTCAAGCTGCGCCCAAGCTGAGGTGATCAAGGGATCTTGGCAGCCCG 180
Db 2216 CGGATGAGCTGAGACCTCAAGCTGCGCCCAAGCTGAGGTGATCAAGGGATCTTGGCAGCCCG 2275
QY 181 TGGCGCATCTCCTCATTTGACTCTCTCCAAGATCACTTCGAGAAAGTCAAGGCACTTCGAG 240
Db 2276 TGGCGCATCTCCTCATTTGACTCTCTCCAAGATCACTTCGAGAAAGTCAAGGCACTTCGAG 2335
QY 241 GAGAAATTGCGCCTCGAAGAAGAACGTGAGCCACGTCAATGACCTTGGTCCGACCTTA 300
Db 2336 GAGAAATTGCGCCTCGAAGAAGAACGTGAGCCACGTCAATGACCTTGGTCCGACCTTA 2395
QY 301 CCACTTTGGGCATTCAGCTCTCAACCGTATACTCTCAGCACTCTGGAAGACCTGAACACCA 360
Db 2396 CCACTTTGGGCATTCAGCTCTCAACCGTATACTCTCAGCACTCTGGAAGACCTGAACACCA 2455
QY 361 GATGGAAGCTTCTGCAAGGTGGCCGTCGAGAACCGAGTCAGGCAAGCTGATGAAGCCACA 420
Db 2456 GATGGAAGCTTCTGCAAGGTGGCCGTCGAGAACCGAGTCAGGCAAGCTGATGAAGCCACA 2515
QY 421 GGGACTTTGGTTCAGCATCTCAGCACTTTCTTCCACGTCGTCCAGGGTCCCTGGGAGA 480
Db 2516 GGGACTTTGGTTCAGCATCTCAGCACTTTCTTCCACGTCGTCCAGGGTCCCTGGGAGA 2575
QY 481 GAGCCATCTGCCCAAAACAAAGTGCCCTACTATATCAACCAAGAGACTCAAAACAATTGCT 540
Db 2576 GAGCCATCTGCCCAAAACAAAGTGCCCTACTATATCAACCAAGAGACTCAAAACAATTGCT 2635
QY 541 GGGACCATCCCAAAATGACAGAGCTCTACAGTCTTTAGCTGACCTGAATATGTAGAT 600
Db 2636 GGGACCATCCCAAAATGACAGAGCTCTACAGTCTTTAGCTGACCTGAATATGTAGAT 2695
QY 601 TCTCAGCTTATAGGACTGCCATGAACCTCCGAAGACTGAGAGGCCCTTGGCTTGGATC 660
Db 2696 TCTCAGCTTATAGGACTGCCATGAACCTCCGAAGACTGAGAGGCCCTTGGCTTGGATC 2755
QY 661 TCTTGAGCCTGTGAGCTGCAATGATGCTTGGACCAAGCAACAACCTCAAGCAAAATGACC 720
Db 2756 TCTTGAGCCTGTGAGCTGCAATGATGCTTGGACCAAGCAACAACCTCAAGCAAAATGACC 2815
QY 721 AGCCCATGATATCTGCAATATTAATGTGTTGACCACTATTATGACCGCGCTGAGC 780
Db 2816 AGCCCATGATATCTGCAATATTAATGTGTTGACCACTATTATGACCGCGCTGAGC 2875
QY 781 AAGAGCACAACAATTTGGTCAACGTCCTCTCTGCGTGATATGTGTGAACTGGCTGC 840

Db 2876 AAGAGCACAAATTTGGTCAACGTCCTCTCTGCGTGATATGTGTGAACTGGCTGC 2935
QY 841 TGAATGTTTATGATACGGGACGAACAGGAGATCCGTCCTGCTTTTAAACTGCGCA 900
Db 2936 TGAATGTTTATGATACGGGACGAACAGGAGATCCGTCCTGCTTTTAAACTGCGCA 2995
QY 901 TCATTTCCCTGTGTAAAGCACATTTTGAAGACAAGTACAGATACCTTTCAAGCAAGTGG 960
Db 2996 TCATTTCCCTGTGTAAAGCACATTTTGAAGACAAGTACAGATACCTTTCAAGCAAGTGG 3055
QY 961 CAAGTCAACAGGATTTTGTGACCAAGCGCAGGCTGGGCTCTTCTGATGATTTCTATCC 1020
Db 3056 CAAGTCAACAGGATTTTGTGACCAAGCGCAGGCTGGGCTCTTCTGATGATTTCTATCC 3115
QY 1021 AAATTCGAAGACAGTTGGGTGAAGTTGATCCTTTGGGGGAGTAACATTGAGCCAGTG 1080
Db 3116 AAATTCGAAGACAGTTGGGTGAAGTTGATCCTTTGGGGGAGTAACATTGAGCCAGTG 3175
QY 1081 TCCGAGCTGCTTCCAAATTTGCTAATAATAAGCAGATCGAATCGAAGCGCCCTTCTAG 1140
Db 3176 TCCGAGCTGCTTCCAAATTTGCTAATAATAAGCAGATCGAATCGAAGCGCCCTTCTAG 3235
QY 1141 ACTGATGAGACTGGAACCCCGCATGCTGTGTGCTGCCCTCTGACACAGTGGCTG 1200
Db 3236 ACTGATGAGACTGGAACCCCGCATGCTGTGTGCTGCCCTCTGACACAGTGGCTG 3295
QY 1201 CTGCAGAAACTGCCAAGCATCAGGCCCAATGTAAACATCTGCAAGAGTGTCCAATCTG 1260
Db 3296 CTGCAGAAACTGCCAAGCATCAGGCCCAATGTAAACATCTGCAAGAGTGTCCAATCTG 3355
QY 1261 GATTGAGGTACAGAGTCTAAAGCACTTTAATTATGACATCTGCCAAGCTGCTTTT 1320
Db 3356 GATTGAGGTACAGAGTCTAAAGCACTTTAATTATGACATCTGCCAAGCTGCTTTT 3415
QY 1321 CTGCTCAGTTGCAAAAGGCCATAAATGACCTATCCCATGCTGGAATTTGCACTCCGA 1380
Db 3416 CTGCTCAGTTGCAAAAGGCCATAAATGACCTATCCCATGCTGGAATTTGCACTCCGA 3475
QY 1381 CTACATCAGAGAGATGTTTCAGACTTTGCAAGTACTAATAAACAATTTGGAACCA 1440
Db 3476 CTACATCAGAGAGATGTTTCAGACTTTGCAAGTACTAATAAACAATTTGGAACCA 3535
QY 1441 AAAGTATTTTGGCAAGCATCCCGCAATGGGCTACCTGCCAGTGCAGCTGTTAGAG 1500
Db 3536 AAAGTATTTTGGCAAGCATCCCGCAATGGGCTACCTGCCAGTGCAGCTGTTAGAG 3595
QY 1501 G 1501
Db 3596 G 3596

RESULT 11
US-09-949-016-2811
; Sequence 2811, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: C1001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; PRIOR FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2811
; LENGTH: 7070

TYPE: DNA
ORGANISM: Human
US-09-949-016-2812

Query Match 99.9%; Score 1499.4; DB 4; Length 7070;

Best Local Similarity 99.9%; Pred. No. 0;
Matches 1500; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TTCTACGAAAGCAGGCTGAGAGGTCATACTAGTGGGAAAAATTGAACCTGCACCTCCG 60
Db TTCTACGAAAGCAGGCTGAGAGGTCATACTAGTGGGAAAAATTGAACCTGCACCTCCG 2155
QY 61 CTGACTGGCAGAGAAAAATAGATGAGACCCCTTGAAAGACTCCAGGAACCTCAAGAGGCCA 120
Db CTGACTGGCAGAGAAAAATAGATGAGACCCCTTGAAAGACTCCGGGAACCTCAAGAGGCCA 2215
QY 121 CGGATGAGCTGGACCTCAAGCTGCGCCAAAGCTGAGGTGATCAAGGATCCTGGCAGCCCG 180
Db CGGATGAGCTGGACCTCAAGCTGCGCCAAAGCTGAGGTGATCAAGGATCCTGGCAGCCCG 2275
QY 181 TGGCGCATCTCCTCATTTGACTCTCTCCAAGATCACCTCGAGAAAGTCAAGGCACCTTGAG 240
Db TGGCGCATCTCCTCATTTGACTCTCTCCAAGATCACCTCGAGAAAGTCAAGGCACCTTGAG 2335
QY 241 GAGAAATTGCGCCTCTGAAAGAGAACGTGAGCCACGTCATGACCTTGCTCGCCAGCTTA 300
Db GAGAAATTGCGCCTCTGAAAGAGAACGTGAGCCACGTCATGACCTTGCTCGCCAGCTTA 2395
QY 301 CCACTTTGGGCATTCAAGCTCTCAACGTATTAACCTCAGCACCTTGGAAGACCTGAACACCA 360
Db CCACTTTGGGCATTCAAGCTCTCAACGTATTAACCTCAGCACCTTGGAAGACCTGAACACCA 2455
QY 361 GATGAAAGCTTCTGACAGTGGCCGTGAGGACCAGTCAGGACGCTGCATGAAGCCACCA 420
Db GATGAAAGCTTCTGACAGTGGCCGTGAGGACCAGTCAGGACGCTGCATGAAGCCACCA 2515
QY 421 GGGACTTTGTGCCAGCATCTCAACCTTTCTTCCACGTCTGTCCAGGCTCCCTGGAGA 480
Db GGGACTTTGTGCCAGCATCTCAACCTTTCTTCCACGTCTGTCCAGGCTCCCTGGAGA 2575
QY 481 GAGCCATCTCGCCAAACAAGTGCCCTACTATATCAACCAAGAGACTCAAAACACTTGCT 540
Db GAGCCATCTCGCCAAACAAGTGCCCTACTATATCAACCAAGAGACTCAAAACACTTGCT 2635
QY 541 GGGACCATCCCAAAATGACAGAGCTCTAACGCTTTTAGCTGACCTGAATAATGTCAGAT 600
Db GGGACCATCCCAAAATGACAGAGCTCTAACGCTTTTAGCTGACCTGAATAATGTCAGAT 2695
QY 601 TCTCAGCTTATAGACTGCGCATGAACTCCGAAGACTGCAGAGGCCCTTGCTTGATC 660
Db TCTCAGCTTATAGACTGCGCATGAACTCCGAAGACTGCAGAGGCCCTTGCTTGATC 2696
QY 661 TCTGAGCCTGTCAAGTCAAGTGCCTTGAGCCAGACAACTCAAGCAAAATGACC 720
Db TCTGAGCCTGTCAAGTCAAGTGCCTTGAGCCAGACAACTCAAGCAAAATGACC 2815
QY 721 AGCCCATGATATCTCGACAGATTAATTTGTTGACCACTAATTATGACCGCCTGAGC 780
Db AGCCCATGATATCTCGACAGATTAATTTGTTGACCACTAATTATGACCGCCTGAGC 2875
QY 781 AAGAGCACAACAATTGGTCAACGTCCTCTCTGCGTGATATGTCTGAACTGGCTGC 840
Db AAGAGCACAACAATTGGTCAACGTCCTCTCTGCGTGATATGTCTGAACTGGCTGC 2935
QY 841 TGAATGTTATGATACGGGACGAACAGGAGGATCCGTCCTGCTTTTAAAACTGGCA 900
Db TGAATGTTATGATACGGGACGAACAGGAGGATCCGTCCTGCTTTTAAAACTGGCA 2995
QY 901 TCAATTCCTGTGTAAAGCACATTTGGAAGACAAGTACAGATACCTTTTCAAGCAAGTGG 960
Db TCAATTCCTGTGTAAAGCACATTTGGAAGACAAGTACAGATACCTTTTCAAGCAAGTGG 3055
QY 961 CAAGTTCAACAGGATTTTGTGACCAAGCGCAGGCTGGCTCTCTGCATGATTCTATCC 1020

Db 3056 CAAGTTCAACAGGATTTTGTGACCAAGCGCAGGCTGGCTCTCTCTGCATGATTCTATCC 3115
QY 1021 AAATTCGAAGACAGTGGGTGAAGTTGCATCCTTTGGGGCAGTAACATTGAGCCAAGTG 1080
Db 3116 AAATTCGAAGACAGTGGGTGAAGTTGCATCCTTTGGGGCAGTAACATTGAGCCAAGTG 3175
QY 1081 TCCGAGCTGCTTCCAATTGTGCTAATAATGAAGCCAGAGATCGAAAGCGCCCTTCTCTAG 1140
Db TCCGAGCTGCTTCCAATTGTGCTAATAATGAAGCCAGAGATCGAAAGCGCCCTTCTCTAG 3235
QY 1141 ACTGATGAGACTGGAACCCCAAGTCCATGTGTGGCTGCCCTCTGCACAGAGTGGCTG 1200
Db ACTGATGAGACTGGAACCCCAAGTCCATGTGTGGCTGCCCTCTGCACAGAGTGGCTG 3295
QY 1201 CTGCAGAACTGCCAAGCATCAGGCCAAATGTAAACATCTGCAAGAGTGTCCAATCATTG 1260
Db CTGCAGAACTGCCAAGCATCAGGCCAAATGTAAACATCTGCAAGAGTGTCCAATCATTG 3355
QY 1261 GATTCAAGTACAGAGTCTTAAGCACTTAATTATGACATCTGCCAAAGCTGCTTTT 1320
Db GATTCAAGTACAGAGTCTTAAGCACTTAATTATGACATCTGCCAAAGCTGCTTTT 3415
QY 1321 CTGCTCAGTTGCAAAAGGCCATAAATGCACATATCCCATGGTGAATATTGCACCTCCA 1380
Db CTGCTCAGTTGCAAAAGGCCATAAATGCACATATCCCATGGTGAATATTGCACCTCCA 3475
QY 1381 CTACATCAGAGAGAGATGTTGAGACTTTGCCAAGGTACTTAAAAACAATTTGGAACCA 1440
Db CTACATCAGAGAGAGATGTTGAGACTTTGCCAAGGTACTTAAAAACAATTTGGAACCA 3535
QY 1441 AAAGTATTTTGGCAAGCATCCCGAATGGGCTACCTGCCAGTGCAGACTGCTTAGAGG 1500
Db AAAGTATTTTGGCAAGCATCCCGAATGGGCTACCTGCCAGTGCAGACTGCTTAGAGG 3595
QY 1501 G 1501
Db 3596 G 3596

RESULT 12

US-09-949-016-2812
; Sequence 2812, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; PRIOR FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2812
; LENGTH: 7109
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-2812

Query Match 99.9%; Score 1499.4; DB 4; Length 7109;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1500; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TTCTACGAAAGCAGGCTGAGAGGTCATACTGAGTGGGAAAAATTGAACCTGCACCTCCG 60
Db 2096 TTCTACGAAAGCAGGCTGAGAGGTCATACTGAGTGGGAAAAATTGAACCTGCACCTCCG 2155

QY 61 CTGACTGGCAGAGAAAAATAGATGAGACCCCTTGAAAAGACTCCAGGAACCTTCAAGAGGCCA 120
Db 2156 CTGACTGGCAGAGAAAAATAGATGAGACCCCTTGAAAAGACTCCGGGAACCTTCAAGAGGCCA 2215
QY 121 CGGATGAGCTGAGACCTCAAGCTGCGCCAAAGCTGAGTGATCAAGGGATCCTGGCAGCCCG 180
Db 2216 CGGATGAGCTGAGACCTCAAGCTGCGCCAAAGCTGAGTGATCAAGGGATCCTGGCAGCCCG 2275
QY 181 TGGGCGATCTCTCAATTGACTCTCTCCAAGATCACTCGAGAAAGTCAAGGCACCTTGCAG 240
Db 2276 TGGGCGATCTCTCAATTGACTCTCTCCAAGATCACTCGAGAAAGTCAAGGCACCTTGCAG 2335
QY 241 GAGAAATTGCGCCTCTGAAAAGAGAACGTGAGCCACGTCAATGACCTTGTGCGCAGCTTA 300
Db 2336 GAGAAATTGCGCCTCTGAAAAGAGAACGTGAGCCACGTCAATGACCTTGTGCGCAGCTTA 2395
QY 301 CCACCTTGGGCAATTCAAGCTCTCAACCGTATACTCTCAGCACTCTTGGAAAGACCTGAACACA 360
Db 2396 CCACCTTGGGCAATTCAAGCTCTCAACCGTATACTCTCAGCACTCTTGGAAAGACCTGAACACA 2455
QY 361 GATGAAGCTTCTGACAGGTGCGCGTGAAGGACCGAGTCAAGGAGCTGCATGAAGCCCA 420
Db 2456 GATGAAGCTTCTGACAGGTGCGCGTGAAGGACCGAGTCAAGGAGCTGCATGAAGCCCA 2515
QY 421 GGGACTTTGGTCCAGCATCTCAGCACTTCTTCTTCCACGTCGTCCAGGGTCCCTGGGAGA 480
Db 2516 GGGACTTTGGTCCAGCATCTCAGCACTTCTTCTTCCACGTCGTCCAGGGTCCCTGGGAGA 2575
QY 481 GAGCCATCTCGCCAAACAAGTGCCTACTATATCAACCAAGAGACTCAAAACAATTGCT 540
Db 2576 GAGCCATCTCGCCAAACAAGTGCCTACTATATCAACCAAGAGACTCAAAACAATTGCT 2635
QY 541 GGGACCATCCCAAAATGACAGAGCTCTACAGTCTTTAGCTGACCTGAATTAATGTCCAGAT 600
Db 2636 GGGACCATCCCAAAATGACAGAGCTCTACAGTCTTTAGCTGACCTGAATTAATGTCCAGAT 2695
QY 601 TCTCAGCTTATAGAGCTGCCATGAAACTCCGAAAGACTGCAGAAAGCCCTTGTGGATC 660
Db 2696 TCTCAGCTTATAGAGCTGCCATGAAACTCCGAAAGACTGCAGAAAGCCCTTGTGGATC 2755
QY 661 TCTTGAGCCTGTCAAGCTGCATGTGATGCTTGGACCAAGCAAACTCAAGCAAAATGACC 720
Db 2756 TCTTGAGCCTGTCAAGCTGCATGTGATGCTTGGACCAAGCAAACTCAAGCAAAATGACC 2815
QY 721 AGCCCATGATATCTCTGACAGATTAATTTGTTGACCACTATTATGACCGCCTGGAGC 780
Db 2816 AGCCCATGATATCTCTGACAGATTAATTTGTTGACCACTATTATGACCGCCTGGAGC 2875
QY 781 AAGAGCACAACAATTTGGTCAACGTCCTCTCTGCGTGATATGTGTGAAGTGGCTGC 840
Db 2876 AAGAGCACAACAATTTGGTCAACGTCCTCTCTGCGTGATATGTGTGAAGTGGCTGC 2935
QY 841 TGAATGTTATGATACGGGACGAACAGGAGGATCCGTGTCCTTTTAAACTGGCA 900
Db 2936 TGAATGTTATGATACGGGACGAACAGGAGGATCCGTGTCCTTTTAAACTGGCA 2995
QY 901 TCATTTCCTGTGTAAAGCACATTTGGAAGACAAGTACAGATACCTTTTCAAGCAAGTG 960
Db 2996 TCATTTCCTGTGTAAAGCACATTTGGAAGACAAGTACAGATACCTTTTCAAGCAAGTG 3055
QY 961 CAAGTTCAACAGGATTTTGTGACCAAGCGAGGCTGGCTCTTCTGCATGATTTATCC 1020
Db 3056 CAAGTTCAACAGGATTTTGTGACCAAGCGAGGCTGGCTCTTCTGCATGATTTATCC 3115
QY 1021 AAATTCCAAGACAGTTGGGTGAAGTGCATCCTTGGGGGCAAGTAAACATGAGCCAAAGTG 1080
Db 3116 AAATTCCAAGACAGTTGGGTGAAGTGCATCCTTGGGGGCAAGTAAACATGAGCCAAAGTG 3175
QY 1081 TCCGGAAGCTGCTTCAAATTTGCTAATAATAAGCAGAGATCGAAGCGGCTCTTCTAG 1140
Db 3176 TCCGGAAGCTGCTTCAAATTTGCTAATAATAAGCAGAGATCGAAGCGGCTCTTCTAG 3235
QY 1141 ACTGATGAGACTGGAACCCAGTCCATGCTGTGGCTGCCCGTCTCTGACAGAGTGGCTG 1200

Db 3236 ACTGATGAGACTGGAACCCAGCTCCATGGTGTGGCTGCCCGTCTGACAGAGTGGCTG 3295
QY 1201 CTGAGAAACTGCCAAGCATCAGGCCAAATGTAACATCTGCAGAAAGCTGTCCAATCATTG 1260
Db 3296 CTGAGAAACTGCCAAGCATCAGGCCAAATGTAACATCTGCAGAAAGCTGTCCAATCATTG 3355
QY 1261 GATTGAGTACAGAGTCTAAAGCACTTTAATTATGACATCTGCCAAAGCTGCTTTT 1320
Db 3356 GATTGAGTACAGAGTCTAAAGCACTTTAATTATGACATCTGCCAAAGCTGCTTTT 3415
QY 1321 CTGTCGAGTTGCAAAAGGCCATAAATGCACTATCCCATGGTGGAAATATTGCACTCGA 1380
Db 3416 CTGTCGAGTTGCAAAAGGCCATAAATGCACTATCCCATGGTGGAAATATTGCACTCGA 3475
QY 1381 CTACATCAGAGAGAAGATGTTGAGACTTTTCCCAAGGTACTTAAAAACAATTTGCAACCA 1440
Db 3476 CTACATCAGAGAGAAGATGTTGAGACTTTTCCCAAGGTACTTAAAAACAATTTGCAACCA 3535
QY 1441 AAAGTATTTTGGCGAAGCATCCCGGAATGGGCTACCTGCGCAGTGCAGACTGTCTTAGAG 1500
Db 3536 AAAGTATTTTGGCGAAGCATCCCGGAATGGGCTACCTGCGCAGTGCAGACTGTCTTAGAG 3595
QY 1501 G 1501
Db 3596 G 3596

RESULT 13
US-09-949-016-2813
; Sequence 2813, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949, 016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241, 755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237, 768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231, 498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2813
; LENGTH: 7109
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-2813

Query Match 99.9%; Score 1499.4; DB 4; Length 7109;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1500; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1 TTCTAGAAAAGCAGGCTGAGAGGTCAATAGTGGGAAAAATTTGAAGCTGCACCTCCG 60
Db 2096 TTCTAGAAAAGCAGGCTGAGAGGTCAATAGTGGGAAAAATTTGAAGCTGCACCTCCG 2155
QY 61 CTGACTGGCAGAGAAAAATAGATGAGACCCCTGAAAAGACTCCAGGAACCTTCAAGAGGCCA 120
Db 2156 CTGACTGGCAGAGAAAAATAGATGAGACCCCTGAAAAGACTCCGGGAACCTTCAAGAGGCCA 2215
QY 121 CGGATGAGCTGAGCTCAAGCTGCGCCAAAGTGAAGTATCAAGGATCCTTGCAAGCCCG 180
Db 2216 CGGATGAGCTGAGCTCAAGCTGCGCCAAAGTGAAGTATCAAGGATCCTTGCAAGCCCG 2275
QY 181 TGGGCGATCTCTCATTTGACTCTTCCAGAGATCACTCGAAGAAAGTCAAGGCACTTGCAG 240
Db 2276 TGGGCGATCTCTCATTTGACTCTTCCAGAGATCACTCGAAGAAAGTCAAGGCACTTGCAG 2335

QY 421 GGGACTTTGGTCCAGCATCTCAGCACTTTCTTCCAGTCTGTCCAGGTCCTGGAGA 480
 Db 2516 GGGACTTTGGTCCAGCATCTCAGCACTTTCTTCCAGTCTGTCCAGGTCCTGGAGA 2575
 QY 481 GAGCCATCTCGCCAAACAAGTGCCCTACTATATCAACCACGAGACTCAACAACCTTGCT 540
 Db 2576 GAGCCATCTCGCCAAACAAGTGCCCTACTATATCAACCACGAGACTCAACAACCTTGCT 2635
 QY 541 GGGACCATCCCAAAATGACAGAGCTCTACAGTCTTTAGCTGACTGAATATGTACAGAT 600
 Db 2636 GGGACCATCCCAAAATGACAGAGCTCTACAGTCTTTAGCTGACTGAATATGTACAGAT 2695
 QY 601 TCTCAGCTTATAGAGCTGCCATGAACTCCGAAGACTGCAGAGGCCCTTGCTTGATC 660
 Db 2696 TCTCAGCTTATAGAGCTGCCATGAACTCCGAAGACTGCAGAGGCCCTTGCTTGATC 2755
 QY 661 TCTTGAGCCTGTGAGCTGCATGTGATGCTTGAGCCAGCAACCTCAAGCAAAATGACC 720
 Db 2756 TCTTGAGCCTGTGAGCTGCATGTGATGCTTGAGCCAGCAACCTCAAGCAAAATGACC 2815
 QY 721 AGCCCATGATATCTCGAGATTAATTAATTTGATCCACTAATTTATGACCGCTGGAGC 780
 Db 2816 AGCCCATGATATCTCGAGATTAATTAATTTGATCCACTAATTTATGACCGCTGGAGC 2875
 QY 781 AAGAGCAACAATTTGTGTCACGTCCTCTCTGCTGATATGTGTGAACTGGCTGC 840
 Db 2876 AAGAGCAACAATTTGTGTCACGTCCTCTCTGCTGATATGTGTGAACTGGCTGC 2935
 QY 841 TGAATGTTATGATACGGAGCAACAAGGAGATCCGCTGCTCTTTTAAACCTGGCA 900
 Db 2936 TGAATGTTATGATACGGAGCAACAAGGAGATCCGCTGCTCTTTTAAACCTGGCA 2995
 QY 901 TCAATTCCTGTGTAAGACATTTGGAGACACAGTACAGATACCTTTTCAAGCAAGTGG 960
 Db 2996 TCAATTCCTGTGTAAGACATTTGGAGACACAGTACAGATACCTTTTCAAGCAAGTGG 3055
 QY 961 CAAGTTCAACAGATTTTGTGACCGCAGCGCTGGGCTCTCTTCGATGATTTCTATCC 1020
 Db 3056 CAAGTTCAACAGATTTTGTGACCGCAGCGCTGGGCTCTCTTCGATGATTTCTATCC 3115
 QY 1021 AAATTTCCAAGACAGTTGGGTGAAGTTGCATCTTTGGGGCAGTAACATTGAGCCAAAGTG 1080
 Db 3116 AAATTTCCAAGACAGTTGGGTGAAGTTGCATCTTTGGGGCAGTAACATTGAGCCAAAGTG 3175
 QY 1081 TCCGAGCTGCTTCCAATTTGCTAATAATAAGCCAGAGATCGAAGCGCCCTTCCCTAG 1140
 Db 3176 TCCGAGCTGCTTCCAATTTGCTAATAATAAGCCAGAGATCGAAGCGCCCTTCCCTAG 3235
 QY 1141 ACTGATGAGACTGGAACCCCAAGTCCATGCTGTGCTGCCCTCTGCACAGAGTGCTG 1200
 Db 3236 ACTGATGAGACTGGAACCCCAAGTCCATGCTGTGCTGCCCTCTGCACAGAGTGCTG 3295
 QY 1201 CTGCAGAACCTGCCAAGCATCAGGCAAAATGTAAACATCTGCAAAAGAGTGTCCAATCATTG 1260
 Db 3296 CTGCAGAACCTGCCAAGCATCAGGCAAAATGTAAACATCTGCAAAAGAGTGTCCAATCATTG 3355
 QY 1261 GATTCAAGTACAGAGTCTTAAAGCACTTAATATGACATCTGCCAAAGCTGCTTTTTTT 1320
 Db 3356 GATTCAAGTACAGAGTCTTAAAGCACTTAATATGACATCTGCCAAAGCTGCTTTTTTT 3415
 QY 1321 CTGCTGAGTTCGAAAAAGGCCATAAAATGCACTATCCCATGCTGAATATGCACTCCGA 1380
 Db 3416 CTGCTGAGTTCGAAAAAGGCCATAAAATGCACTATCCCATGCTGAATATGCACTCCGA 3475
 QY 1381 CTACATCAGGAGAGATGTTGAGACTTTGCCAAGGTACTAATAAAACAAATTTGGAACCA 1440
 Db 3476 CTACATCAGGAGAGATGTTGAGACTTTGCCAAGGTACTAATAAAACAAATTTGGAACCA 3535
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 QY 1501 G 1501

Db 3596 G 3596

RESULT 15
 US-09-949-016-2815
 ; Sequence 2815, Application US/09949016
 ; Patent No. 6812339
 ; GENERAL INFORMATION:
 ; APPLICANT: VENTER, J. Craig et al.
 ; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
 ; FILE REFERENCE: CL001307
 ; CURRENT APPLICATION NUMBER: US/09/949,016
 ; PRIOR APPLICATION NUMBER: 60/241,755
 ; PRIOR FILING DATE: 2000-10-20
 ; PRIOR APPLICATION NUMBER: 60/237,768
 ; PRIOR FILING DATE: 2000-10-03
 ; PRIOR APPLICATION NUMBER: 60/231,498
 ; PRIOR FILING DATE: 2000-09-08
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 2815
 ; LENGTH: 7109
 ; TYPE: DNA
 ; ORGANISM: Human
 US-09-949-016-2815

Query Match 99.9%; Score 1499.4; DB 4; Length 7109;
 Best Local Similarity 99.9%; Pred. No. 0;
 Matches 1500; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TTTACGAAAGCAGGCTGAGGAGGTCAATATCTGAGTGGAAAAATGAACTGCACTCCG 60
 Db 2096 TTTACGAAAGCAGGCTGAGGAGGTCAATATCTGAGTGGAAAAATGAACTGCACTCCG 2155
 QY 61 CTGACTGGCAGAGAAAAATAGATGAGACCTTTGAAAGACTCCAGAACTTCAAGAGGCCA 120
 Db 2156 CTGACTGGCAGAGAAAAATAGATGAGACCTTTGAAAGACTCCAGAACTTCAAGAGGCCA 2215
 QY 121 CGATGAGCTGACCTCAAGCTGCGCAAGCTGAGGTGATCAAGGATCCTGCGACGCCG 180
 Db 2216 CGATGAGCTGACCTCAAGCTGCGCAAGCTGAGGTGATCAAGGATCCTGCGACGCCG 2275
 QY 181 TGGCGATCTCTCATTTGACTCTTCCAAGATCACCTCGAAGAGTCAAGGCACTTCGAG 240
 Db 2276 TGGCGATCTCTCATTTGACTCTTCCAAGATCACCTCGAAGAGTCAAGGCACTTCGAG 2335
 QY 241 GAGAAATTTGGGCTCTGAAAGAGAACTGAGCCACGTCAATGACCTTGCTGCGACCTTA 300
 Db 2336 GAGAAATTTGGGCTCTGAAAGAGAACTGAGCCACGTCAATGACCTTGCTGCGACCTTA 2395
 QY 301 CCACCTTTGGGCAATTCAAGCTCTCAACCTGATAACCTCAGCACTCTGGAAGCCTGAACCA 360
 Db 2396 CCACCTTTGGGCAATTCAAGCTCTCAACCTGATAACCTCAGCACTCTGGAAGCCTGAACCA 2455
 QY 361 GATGAACTTTGTCAGGTGGCGCTGAGAGCCGAGTCAAGCAGCTGCATGAAGCCACCA 420
 Db 2456 GATGAACTTTGTCAGGTGGCGCTGAGAGCCGAGTCAAGCAGCTGCATGAAGCCACCA 2515
 QY 421 GGAAGTTGGTCCAGCATCTCAGCACTTTCTTCCACGCTGTGCCAGGTCCTGGAGA 480
 Db 2516 GGAAGTTGGTCCAGCATCTCAGCACTTTCTTCCACGCTGTGCCAGGTCCTGGAGA 2575
 QY 481 GAGCCATCTCGCCAAACAAGTGCCCTACTATATCAACCACGAGACTCAACAACCTTGCT 540
 Db 2576 GAGCCATCTCGCCAAACAAGTGCCCTACTATATCAACCACGAGACTCAACAACCTTGCT 2635
 QY 541 GGGACCATCCCAAAATGACAGAGCTCTACAGTCTTTAGCTGACTGAATATGTACAGAT 600
 Db 2636 GGGACCATCCCAAAATGACAGAGCTCTACAGTCTTTAGCTGACTGAATATGTACAGAT 2695

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QY      601 TCTCAGCTTATAGGACTGCCATGAATCCGAAGACTGCAGAAAGGCCCTTGCTTGATC 660
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Db      2696 TCTCAGCTTATAGGACTGCCATGAATCCGAAGACTGCAGAAAGGCCCTTGCTTGATC 2755
QY      661 TCTTGAGCCTGTGACGTGCATGTGATGCTTGAGACCAACAACCTCAAGCAAAATGACC 720
      |||
Db      2756 TCTTGAGCCTGTGACGTGCATGTGATGCTTGAGACCAACAACCTCAAGCAAAATGACC 2815
QY      721 AGCCCATGGATATCCTGCAGATTATTAATTGTTGACCACCTATTATGACCGCTGAGC 780
      |||
Db      2816 AGCCCATGGATATCCTGCAGATTATTAATTGTTGACCACCTATTATGACCGCTGAGC 2875
QY      781 AAGAGCACACAATTTGGTCAACGTCCTCTCTGCGTGATATGTGTGAAGTGGCTGC 840
      |||
Db      2876 AAGAGCACACAATTTGGTCAACGTCCTCTCTGCGTGATATGTGTGAAGTGGCTGC 2935
QY      841 TGAATGTTTATGATACGGGACGAACAGGAGGATCCGTGTCCTGCTTTTAAACTGGCA 900
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Db      2936 TGAATGTTTATGATACGGGACGAACAGGAGGATCCGTGTCCTGCTTTTAAACTGGCA 2995
QY      901 TCATTTCCCTGTGTAAAGCACATTTGGAGACAAGTACAGATACCTTTCAAGCAAGTGG 960
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Db      2996 TCATTTCCCTGTGTAAAGCACATTTGGAGACAAGTACAGATACCTTTCAAGCAAGTGG 3055
QY      961 CAAGTCAACAGGATTTTGTGACCAAGCGCAGGCTGGGCTCTTCGATGATTTCTATCC 1020
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Db      3056 CAAGTCAACAGGATTTTGTGACCAAGCGCAGGCTGGGCTCTTCGATGATTTCTATCC 3115
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Db      3116 AAATTCACAGACAGTTGGGTGAAGTGCATCTTTGGGGGCAATTAAGCCCAAGTG 3175
QY      1081 TCCGAGCTGCTTCCAATTTGCTAATTAAGCCAGAGATCGAAGCGGCTCTTCCTAG 1140
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Db      3176 TCCGAGCTGCTTCCAATTTGCTAATTAAGCCAGAGATCGAAGCGGCTCTTCCTAG 3235
QY      1141 ACTGATGAGACTGGAACCCCAAGTCCATGCTGCTGCCCCCTCTGCAAGAGTGGCTG 1200
      |||
Db      3236 ACTGATGAGACTGGAACCCCAAGTCCATGCTGCTGCCCCCTCTGCAAGAGTGGCTG 3295
QY      1201 CTGCAAACTGCCAAGCATCAGGCCAATGTAACTCTGCAAAAGAGTGTCCAATCATTG 1260
      |||
Db      3296 CTGCAAACTGCCAAGCATCAGGCCAATGTAACTCTGCAAAAGAGTGTCCAATCATTG 3355
QY      1261 GATTCAAGTACAGGAGTCTAAGACCTTAATTATGACATCTGCCAAAGCTGCTTTT 1320
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Db      3356 GATTCAAGTACAGGAGTCTAAGACCTTAATTATGACATCTGCCAAAGCTGCTTTT 3415
QY      1321 CTGTCGAGTTGCAAAAGGCCATAAATGCACTATCCCATGCTGGAATATTGCACTCCGA 1380
      |||
Db      3416 CTGTCGAGTTGCAAAAGGCCATAAATGCACTATCCCATGCTGGAATATTGCACTCCGA 3475
QY      1381 CTACATCAGAGAAAGATGTTGAGACTTTGCCAAGGTACTAATAAAAACAAATTTGGAACCA 1440
      |||
Db      3476 CTACATCAGAGAAAGATGTTGAGACTTTGCCAAGGTACTAATAAAAACAAATTTGGAACCA 3535
QY      1441 AAAGTATTTTGCGAAGCATCCCGAATGGGCTACCTGCAGTGCAGACTGTCTTAGAGG 1500
      |||
Db      3536 AAAGTATTTTGCGAAGCATCCCGAATGGGCTACCTGCAGTGCAGACTGTCTTAGAGG 3595
QY      1501 G 1501
      |
Db      3596 G 3596
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Job time : 268.233 secs

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OM nucleic - nucleic search, using bw model

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(without alignments)
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Gapop 10.0 , Gapext 1.0

Searched: 1202784 seqs, 818138359 residues

Total number of hits satisfying chosen parameters: 2405568

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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3: /cgn2_6/ptodata/1/ina/6A_COMB.seq: *
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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3	1499.4	99.9	5627	4	US-09-949-016-2832
4	1499.4	99.9	7070	4	US-09-949-016-2804
5	1499.4	99.9	7070	4	US-09-949-016-2805
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10	1499.4	99.9	7070	4	US-09-949-016-2810
11	1499.4	99.9	7070	4	US-09-949-016-2811
12	1499.4	99.9	7109	4	US-09-949-016-2812
13	1499.4	99.9	7109	4	US-09-949-016-2813
14	1499.4	99.9	7109	4	US-09-949-016-2814
15	1499.4	99.9	7109	4	US-09-949-016-2815
16	1499.4	99.9	7109	4	US-09-949-016-2816
17	1499.4	99.9	7109	4	US-09-949-016-2817
18	1499.4	99.9	7109	4	US-09-949-016-2818
19	1499.4	99.9	7109	4	US-09-949-016-2819
20	1499.4	99.9	7109	4	US-09-949-016-2820
21	1499.4	99.9	7141	4	US-09-949-016-2822
22	1499.4	99.9	7141	4	US-09-949-016-2823
23	1499.4	99.9	7141	4	US-09-949-016-2824
24	1499.4	99.9	7141	4	US-09-949-016-2825
25	1490	99.3	13977	3	US-09-484-970B-60
26	1299.4	86.6	19307	3	US-08-836-022A-10
27	1299.4	86.6	19307	3	US-09-427-048A-10

28	657	43.8	1571	4	US-09-949-016-2821	Sequence 2821, Ap
29	657	43.8	4556	4	US-09-949-016-2826	Sequence 2826, Ap
30	657	43.8	4556	4	US-09-949-016-2827	Sequence 2827, Ap
31	657	43.8	4556	4	US-09-949-016-2828	Sequence 2828, Ap
32	657	43.8	4556	4	US-09-949-016-2829	Sequence 2829, Ap
33	657	43.8	4556	4	US-09-949-016-2830	Sequence 2830, Ap
34	640	42.6	6045	4	US-09-091-501B-7	Sequence 7, Appli
35	640	42.6	10320	4	US-09-091-501B-9	Sequence 9, Appli
36	616.8	41.1	3498	4	US-09-949-016-1359	Sequence 1359, Ap
37	616.8	41.1	3499	4	US-09-949-016-276	Sequence 276, App
38	606	40.4	3915	4	US-09-976-594-93	Sequence 93, Appl
39	271.8	18.1	393753	4	US-09-949-016-14573	Sequence 14573, A
40	271.8	18.1	393753	4	US-09-949-016-14574	Sequence 14574, A
41	271.8	18.1	818128	4	US-09-949-016-14546	Sequence 14546, A
42	271.8	18.1	818128	4	US-09-949-016-14547	Sequence 14547, A
43	271.8	18.1	818128	4	US-09-949-016-14548	Sequence 14548, A
44	271.8	18.1	818128	4	US-09-949-016-14549	Sequence 14549, A
45	271.8	18.1	818128	4	US-09-949-016-14550	Sequence 14550, A

ALIGNMENTS

RESULT 1
US-09-687-875A-1
; Sequence 1, Application US/09687875A
; Patent No. 6544786
; GENERAL INFORMATION:
; APPLICANT: Xiao, Xiao
; APPLICANT: Liu, Paul
; TITLE OF INVENTION: METHOD AND VECTOR FOR PRODUCING AND TRANSFERRING TRANS-SPICED PEI
; FILE REFERENCE: 00792
; CURRENT APPLICATION NUMBER: US/09/687, 875A
; CURRENT FILING DATE: 2000-10-13
; PRIOR APPLICATION NUMBER: 60/158, 868
; PRIOR FILING DATE: 1999-10-15
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
; LENGTH: 5952
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (2897)..(2898)
; OTHER INFORMATION: S4 junction site
; NAME/KEY: misc_feature
; LOCATION: (3198)..(3199)
; OTHER INFORMATION: S2 junction site
; US-09-687-875A-1

Query Match	100.0%;	Score 1501;	DB 4;	Length 5952;
Best local similarity	100.0%;	Pred. No. 0;		
Matches 1501;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;
QY	1	TCAACATTAGTCCCATTTGGAAGCCAGTCTTGACCACTGGAAGCCTTGACACCTTCTC	60	
DB	3275	TCAACATTAGTCCCATTTGGAAGCCAGTCTTGACCACTGGAAGCCTTGACACCTTCTC	3334	
QY	61	TGCAGGAATCTTGTGTGGCTACAGCTGAAGATGATGAATTAAAGCCGAGGACACCTA	120	
DB	3335	TGCAGGAATCTTGTGTGGCTACAGCTGAAGATGATGAATTAAAGCCGAGGACACCTA	3394	
QY	121	TTGAGGCGACTTTCAGCAGTTCAGAGCAGAACGATGTACATAGGCTTCAAGAGGG	180	
DB	3395	TTGAGGCGACTTTCAGCAGTTCAGAGCAGAACGATGTACATAGGCTTCAAGAGGG	3454	
QY	181	AATTGAACCTAAGAACCTGTAATCATGAGTACTCTTGAGACTGTACGAATATTCTGA	240	
DB	3455	AATTGAACCTAAGAACCTGTAATCATGAGTACTCTTGAGACTGTACGAATATTCTGA	3514	
QY	241	CAGAGCAGCTTTGGAAGACTAGAAACTTACCAGAGCCAGAGAGCTGCTCCTG	300	

Db 3515 CAGAGCAGCCTTTGGAAAGACTAGAGAACTCTAACAGAGGCCAGAGAGCTGCCTCCTG 3574

QY 301 AGGAGAGAGCCCAAGATGTCACTCGGCTTCTACGAAAGCAGGCTGAGGAGTCAATAC TG 360

Db 3575 AGGAGAGAGCCCAAGATGTCACTCGGCTTCTACGAAAGCAGGCTGAGGAGTCAATAC TG 3634

QY 361 AGTGGAAAAATTGAACCTGCACTCCGCTGACTGGCAGAGAAAAATAGATGAGACCCTTG 420

Db 3635 AGTGGAAAAATTGAACCTGCACTCCGCTGACTGGCAGAGAAAAATAGATGAGACCCTTG 3694

QY 421 AAAGACTCCAGGAACCTTCAAGAGGCCAGGATGAGCTGACCTCAAGCTGCCCAAGCTG 480

Db 3695 AAAGACTCCAGGAACCTTCAAGAGGCCAGGATGAGCTGACCTCAAGCTGCCCAAGCTG 3754

QY 481 AGGTGATCAAGGGATCCTGGCAGCCCGTGGCGGATCTCCTCATTTGACTCTCTCCAAGATC 540

Db 3755 AGGTGATCAAGGGATCCTGGCAGCCCGTGGCGGATCTCCTCATTTGACTCTCTCCAAGATC 3814

QY 541 ACCTCGAGAAAGTCAAGGCACTTCAGGAGAGAAATTCGCGCTCTGAAAAGAAAGAGAGCC 600

Db 3815 ACCTCGAGAAAGTCAAGGCACTTCAGGAGAGAAATTCGCGCTCTGAAAAGAAAGAGAGCC 3874

QY 601 ACGTCAATGACCTTGCTCGCCAGCTTACCACTTTGGGCAATTCAGCTCTCACCGTATTAAC 660

Db 3875 ACGTCAATGACCTTGCTCGCCAGCTTACCACTTTGGGCAATTCAGCTCTCACCGTATTAAC 3934

QY 661 TCAGCACTCTGGAAGACCTGAACACCAAGATGGAAGCTTCTGCAGGTGGCCGTCAGAGACC 720

Db 3935 TCAGCACTCTGGAAGACCTGAACACCAAGATGGAAGCTTCTGCAGGTGGCCGTCAGAGACC 3994

QY 721 GAGTCAGGCACTGCATGAAGCCCCACAGGCACTTGTGTCAGCATCTCAGCACTTTCTTT 780

Db 3995 GAGTCAGGCACTGCATGAAGCCCCACAGGCACTTGTGTCAGCATCTCAGCACTTTCTTT 4054

QY 781 CCACTGTGTCCAGGGTCCCTGGGAGAGAGCCATCTGCCAAACAAGTGCCTACTATA 840

Db 4055 CCACTGTGTCCAGGGTCCCTGGGAGAGAGCCATCTGCCAAACAAGTGCCTACTATA 4114

QY 841 TCAACCAAGAGACTCAAACAACTTGTGGAGACCATCCAAAATGACAGACTCTACCAGT 900

Db 4115 TCAACCAAGAGACTCAAACAACTTGTGGAGACCATCCAAAATGACAGACTCTACCAGT 4174

QY 901 CTTTGAAGTGAATATGTCAAGTTCTCAGCTTATAGACTGCCATGAACTCCGAA 960

Db 4175 CTTTGAAGTGAATATGTCAAGTTCTCAGCTTATAGACTGCCATGAACTCCGAA 4234

QY 961 GACTGCAAGAGCCCTTGTGCTTGATCTCTTGAGCCTGTCAAGTGAATGATGCTTGG 1020

Db 4235 GACTGCAAGAGCCCTTGTGCTTGATCTCTTGAGCCTGTCAAGTGAATGATGCTTGG 4294

QY 1021 ACCAGCACAACCTCAAGCAAAATGACCAAGCCATGATATCTTGCAAGTATTAATTGTT 1080

Db 4295 ACCAGCACAACCTCAAGCAAAATGACCAAGCCATGATATCTTGCAAGTATTAATTGTT 4354

QY 1081 TGACCACTATTATGACCGCCTGGAGCAAGACCAACAATTGGTCAACGTCCTCTCT 1140

Db 4355 TGACCACTATTATGACCGCCTGGAGCAAGACCAACAATTGGTCAACGTCCTCTCT 4414

QY 1141 GCGTGATATGTGTCTGAACTGGCTGTGAATGTTATGATACGGGACGAACAGGAGGA 1200

Db 4415 GCGTGATATGTGTCTGAACTGGCTGTGAATGTTATGATACGGGACGAACAGGAGGA 4474

QY 1201 TCCGTGTCTCTTTTAAACTGGGATCATTTCCCTGTGTAAAGCACATTTGGAAGACA 1260

Db 4475 TCCGTGTCTCTTTTAAACTGGGATCATTTCCCTGTGTAAAGCACATTTGGAAGACA 4534

QY 1261 AGTACAGATACCTTTTCAAGCAAGTGCAGATTCAACAGATTTTGTGACGAGGAGGC 1320

Db 4535 AGTACAGATACCTTTTCAAGCAAGTGCAGATTCAACAGATTTTGTGACGAGGAGGC 4594

QY 1321 TGGGCTCTCTTGTGATGATTTCTATCCAAATTCAGAGACAGTTGGTGAAGTTGCATCT 1380

Db 4595 TGGGCTCTCTTGTGATGATTTCTATCCAAATTCAGAGACAGTTGGTGAAGTTGCATCT 4654

QY 1381 TTGGGGCAGTAACTTGAGCCCAAGTGTCCGAGCTGCTTCCAATTTGCTAATAAAGC 1440

Db 4655 TTGGGGCAGTAACTTGAGCCCAAGTGTCCGAGCTGCTTCCAATTTGCTAATAAAGC 4714

QY 1441 CAGAGATCGAAGCGGCCCTCTTCTTGAAGCTGATGAGACTGGAACCCCAAGTCCATGTGT 1500

Db 4715 CAGAGATCGAAGCGGCCCTCTTCTTGAAGCTGATGAGACTGGAACCCCAAGTCCATGTGT 4774

QY 1501 G 1501

Db 4775 G 4775

RESULT 2

US-09-949-016-2831

; Sequence 2831, Application US/09949016

; Patent No. 6812339

; GENERAL INFORMATION:

; APPLICANT: VENTER, J. Craig et al.

; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED

; FILE REFERENCE: CL001307

; CURRENT APPLICATION NUMBER: US/09/949, 016

; CURRENT FILING DATE: 2000-04-14

; PRIOR APPLICATION NUMBER: 60/241, 755

; PRIOR FILING DATE: 2000-10-20

; PRIOR APPLICATION NUMBER: 60/237, 768

; PRIOR FILING DATE: 2000-10-03

; PRIOR APPLICATION NUMBER: 60/231, 498

; PRIOR FILING DATE: 2000-09-08

; NUMBER OF SEQ ID NOS: 207012

; SOFTWARE: FaSeq for Windows Version 4.0

; SEQ ID NO 2831

; LENGTH: 5627

; TYPE: DNA

; ORGANISM: Human

US-09-949-016-2831

Query Match 99.9%; Score 1499.4; DB 4; Length 5627;

Best Local Similarity 99.9%; Pred. No. 0;

Matches 1500; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TCAACATTAGGTCCATTTTGGAAGCCAGTTCTGACCAGTGAAGCGTCTGCACCTTTCTC 60

Db 255 TCAACATTAGGTCCATTTTGGAAGCCAGTTCTGACCAGTGAAGCGTCTGCACCTTTCTC 314

QY 61 TGCAGGAACCTTGTGTGTGCTACAGCTGAAAGATGATGAATTAAGCCGGCAGGCACTTA 120

Db 315 TGCAGGAACCTTGTGTGTGCTACAGCTGAAAGATGATGAATTAAGCCGGCAGGCACTTA 374

QY 121 TTGAGGCGCACTTTCAGCAGTTGAGAAAGCAGAAAGATGATGATGAGGCTTCAAGAGG 180

Db 375 TTGAGGCGCACTTTCAGCAGTTGAGAAAGCAGAAAGATGATGATGAGGCTTCAAGAGG 434

QY 181 AATTGAAAACTAAAGAACCTGTATCATGAGTACTCTTGAGACTGTACGAATATTCTGA 240

Db 435 AATTGAAAACTAAAGAACCTGTATCATGAGTACTCTTGAGACTGTACGAATATTCTGA 494

QY 241 CAGAGCAGCCTTTGGAAGGACTAGAGAAACTCTACGAGAGCCCAAGAGCTGCTCCTG 300

Db 495 CAGAGCAGCCTTTGGAAGGACTAGAGAAACTCTACGAGAGCCCAAGAGCTGCTCCTG 554

QY 301 AGGAGAGAGCCCAAGATGTCACTCGGCTTCTACGAAAGCAGGCTGAGGAGTCAATACTG 360

Db 555 AGGAGAGAGCCCAAGATGTCACTCGGCTTCTACGAAAGCAGGCTGAGGAGTCAATACTG 614

QY 361 AGTGGAAAAATTGAACCTGCACTCCGCTGACTGGCAGAGAAAAATAGATGAGACCCTTG 420

Db 615 AGTGGAAAAATTGAACCTGCACTCCGCTGACTGGCAGAGAAAAATAGATGAGACCCTTG 674

QY 421 AAAGACTCCAGGAACCTTCAAGAGGCCAGGATGAGCTGACCTCAAGCTGCGCCAAGCTG 480

Db 675 AAAGACTCCGGAACTTCAAGAGGCCACGGATGAGCTGACCTCAAGCTGCGCCAAGCTG 734
QY 481 AGGTGATCAAGGATCCTGGCAGCCCGTGGCGATCTCTCATTGACTCTCTCAAGATC 540
Db 735 AGTGATCAAGGATCCTGGCAGCCCGTGGCGATCTCTCATTGACTCTCTCAAGATC 794
QY 541 ACCTCGAAGAACTCAAGGCACTTGAAGAGAAATGCGCCTCTGAAGAGAACTGAGCC 600
Db 795 ACCTCGAAGAACTCAAGGCACTTGAAGAGAAATGCGCCTCTGAAGAGAACTGAGCC 854
QY 601 ACGTCAATGACTTGTCTCGCCAGCTTACCACCTTTGGGCATTGAGCTCTCAACCGTATAAC 660
Db 855 ACGTCAATGACTTGTCTCGCCAGCTTACCACCTTTGGGCATTGAGCTCTCAACCGTATAAC 914
QY 661 TCAGCACTTGAAGAACTTGAACACCAAGATGAAAGCTTTCAGAGTGCGCGCTGAGGACC 720
Db 915 TCAGCACTTGAAGAACTTGAACACCAAGATGAAAGCTTTCAGAGTGCGCGCTGAGGACC 974
QY 721 GAGTCAGGCACTGATGAAGCCCAAGGACTTGTCCAGCATCTCAGCACTTCTTT 780
Db 975 GAGTCAGGCACTGATGAAGCCCAAGGACTTGTCCAGCATCTCAGCACTTCTTT 1034
QY 781 CCAGTGTGTCCAGGCTCCCTGGAGAGAGCCATCTCGCCAACAAGAGCCCTACTATA 840
Db 1035 CCAGTGTGTCCAGGCTCCCTGGAGAGAGCCATCTCGCCAACAAGAGCCCTACTATA 1094
QY 841 TCACCAAGAGACTCAACAACACTTGTGGGACCATCCCAAAATGACAGAGCTTACCAGT 900
Db 1095 TCACCAAGAGACTCAACAACACTTGTGGGACCATCCCAAAATGACAGAGCTTACCAGT 1154
QY 901 CTTAGCTGACTGAAATTAATGTCAGATTCTCAGCTTATAGAGCTGCCATGAACTCCGAA 960
Db 1155 CTTAGCTGACTGAAATTAATGTCAGATTCTCAGCTTATAGAGCTGCCATGAACTCCGAA 1214
QY 961 GACTGCAGAAAGCCCTTGTCTTGATCTCTGAGCCTGTGAGCTGATGATGCTTGG 1020
Db 1215 GACTGCAGAAAGCCCTTGTCTTGATCTCTGAGCCTGTGAGCTGATGATGCTTGG 1274
QY 1021 ACCAGCAACAACCTCAAGCAAAATGACCAAGCCCATGGATATCTGAGATTATTAATTGT 1080
Db 1275 ACCAGCAACAACCTCAAGCAAAATGACCAAGCCCATGGATATCTGAGATTATTAATTGT 1334
QY 1081 TGACCACTATTATGACCGCCTGAGCAAGAGCAACAATTTGGTCAAGCTCCCTCTCT 1140
Db 1335 TGACCACTATTATGACCGCCTGAGCAAGAGCAACAATTTGGTCAAGCTCCCTCTCT 1394
QY 1141 GCGTGATATGCTGTAAGCTGCTGATGTTTATGATACGGGACGAACAGGAGGA 1200
Db 1395 GCGTGATATGCTGTAAGCTGCTGATGTTTATGATACGGGACGAACAGGAGGA 1454
QY 1201 TCCGTGTCTGTCTTTTAAACTGGCATCATTTCCCTGTGTAAAGCACATTTGGAAGACA 1260
Db 1455 TCCGTGTCTGTCTTTTAAACTGGCATCATTTCCCTGTGTAAAGCACATTTGGAAGACA 1514
QY 1261 AGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCAACAGATTTTGTGACGAGCGAGGC 1320
Db 1515 AGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCAACAGATTTTGTGACGAGCGAGGC 1574
QY 1321 TGGGCTCCTTCTGATGATTTCTATCCAATTTCCAAGACAGTTGGGTGAAGTTGCATCCT 1380
Db 1575 TGGGCTCCTTCTGATGATTTCTATCCAATTTCCAAGACAGTTGGGTGAAGTTGCATCCT 1634
QY 1381 TTGGGGGCAATTAATTGAGCCAAAGTGTCCGAGCTGCTTCCAATTTGCTAATAATAAGC 1440
Db 1635 TTGGGGGCAATTAATTGAGCCAAAGTGTCCGAGCTGCTTCCAATTTGCTAATAATAAGC 1694
QY 1441 CAGAGATCGAAGCGGCCCTTCTCTAGACTGATGAGACTGGAACCCCACTCATGTGTGT 1500
Db 1695 CAGAGATCGAAGCGGCCCTTCTCTAGACTGATGAGACTGGAACCCCACTCATGTGTGT 1754
QY 1501 G 1501
Db 1755 G 1755

RESULT 3
US-09-949-016-2832
; Sequence 2832, Application us/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949, 016
; PRIOR APPLICATION NUMBER: 60/241, 755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237, 768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231, 498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2832
; LENGTH: 5627
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-2832

Query Match 99.9%; Score 1499.4; DB 4; Length 5627;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1500; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TCAACATTAGTCCCATTTTGAAGCCAGTCTGACCAGTGAAGCGTGCACCTTCTC 60
Db 255 TCAACATTAGTCCCATTTTGAAGCCAGTCTGACCAGTGAAGCGTGCACCTTCTC 314
QY 61 TGCAGAACTTCTGCTGTGCTACAGCTGAAAGATGATGAATTAAGCGGACGACCTA 120
Db 315 TGCAGAACTTCTGCTGTGCTACAGCTGAAAGATGATGAATTAAGCGGACGACCTA 374
QY 121 TTGAGGCGCACTTTCAGCAGTTCAAGAGCAGAACGATGTACATAGGCTTCAAGAGG 180
Db 375 TTGAGGCGCACTTTCAGCAGTTCAAGAGCAGAACGATGTACATAGGCTTCAAGAGG 434
QY 181 AATTGAAACTTAAAGAACTGTATCATGATGATCTTTGAGACTGTACGAATATTCTGA 240
Db 435 AATTGAAACTTAAAGAACTGTATCATGATGATCTTTGAGACTGTACGAATATTCTGA 494
QY 241 CAGAGCAGCTTTGGAAGACTAGAGAACTCTACAGAGGCCAGAGAGCTGCTCCTG 300
Db 495 CAGAGCAGCTTTGGAAGACTAGAGAACTCTACAGAGGCCAGAGAGCTGCTCCTG 554
QY 301 AGAGAGAGCCAGATGTCACTCGGCTTCTACGAAAGCAGGCTGAGAGGTCAATACTG 360
Db 555 AGAGAGAGCCAGATGTCACTCGGCTTCTACGAAAGCAGGCTGAGAGGTCAATACTG 614
QY 361 AGTGGAAAAATTGAACCTGCACTCCGCTGACTGGCAGAGAAAAATAGATGAGACCCTG 420
Db 615 AGTGGAAAAATTGAACCTGCACTCCGCTGACTGGCAGAGAAAAATAGATGAGACCCTG 674
QY 421 AAAGACTCCAGAACTTCAAGAGGCCACGATGAGCTGACCTCAAGCTGCGCCAAGCTG 480
Db 675 AAAGACTCCAGAACTTCAAGAGGCCACGATGAGCTGACCTCAAGCTGCGCCAAGCTG 734
QY 481 AGTGATCAAGGATCCTGGCAGCCCGTGGCGATCTCTCATTGACTCTCTCAAGATC 540
Db 735 AGTGATCAAGGATCCTGGCAGCCCGTGGCGATCTCTCATTGACTCTCTCAAGATC 794
QY 541 ACCTGAGAAAGTCAAGGCACTTGAAGAGAAATTTGGCCTCTGAAGAGAAAGTGAAGC 600
Db 795 ACCTGAGAAAGTCAAGGCACTTGAAGAGAAATTTGGCCTCTGAAGAGAAAGTGAAGC 854
QY 601 ACGTCAATGACTTGTCTCGCCAGCTTACCACCTTTGGGCATTGAGCTCTCAACCGTATAAC 660
Db 1755 G 1755

Db 855 ACGTCAATGACCTTGCCTGCCAGCTTACCACCTTTGGGCAATTGAGCTTCACCGTATAACC 914
QY 661 TCAGCACTCTGGAAGACCTGAAACACCAAGATGGAAGCTTCTGCAGGTGGCCGTCGAGACC 720
Db 915 TCAGCACTCTGGAAGACCTGAAACACCAAGATGGAAGCTTCTGCAGGTGGCCGTCGAGACC 974
QY 721 GAGTCAGGACGCTGATGAAAGCCCAAGGGAATTGGTCCAGCATCTCAGCACTTCTTT 780
Db 975 GAGTCAGGACGCTGATGAAAGCCCAAGGGAATTGGTCCAGCATCTCAGCACTTCTTT 1034
QY 781 CCACGTCTGTCCAGGGTCCCTGGAGAGAGCCATCTCGCCAAAGAAAGTGCCCTACTATTA 840
Db 1035 CCACGTCTGTCCAGGGTCCCTGGAGAGAGCCATCTCGCCAAAGAAAGTGCCCTACTATTA 1094
QY 841 TCAACCAAGAGACTCAAAACAACCTGTGGGAGCCATCCCAAAATGACAGAGCTTACCGAGT 900
Db 1095 TCAACCAAGAGACTCAAAACAACCTGTGGGAGCCATCCCAAAATGACAGAGCTTACCGAGT 1154
QY 901 CTTTAGCTGACCTGAATATATGTACAGATTCTCAGCTTATAGGACTGCCATGAAACTCCGAA 960
Db 1155 CTTTAGCTGACCTGAATATATGTACAGATTCTCAGCTTATAGGACTGCCATGAAACTCCGAA 1214
QY 961 GACTGCAGAGGCCCCCTTGTGATCTCTTGAATCTCTTGAAGCCCTGTGAGCTGCATGTGATGCTTGG 1020
Db 1215 GACTGCAGAGGCCCCCTTGTGATCTCTTGAATCTCTTGAAGCCCTGTGAGCTGCATGTGATGCTTGG 1274
QY 1021 ACCAGCACAACCTCAAGCAAAATGACCAAGCCCATGGATATCTCTGAGATTATTAATTGTT 1080
Db 1275 ACCAGCACAACCTCAAGCAAAATGACCAAGCCCATGGATATCTCTGAGATTATTAATTGTT 1334
QY 1081 TGACCACTATTATATGACCGGCTGAGCAAGACACAACAATTGGTCAACGTCCTCTCT 1140
Db 1335 TGACCACTATTATATGACCGGCTGAGCAAGACACAACAATTGGTCAACGTCCTCTCT 1394
QY 1141 GCGTGATATGTGTCTGTAACCTGCTGTAATGTTATGATACGGAGCAACAGGAGGA 1200
Db 1395 GCGTGATATGTGTCTGTAACCTGCTGTAATGTTATGATACGGAGCAACAGGAGGA 1454
QY 1201 TCCGTGTCTGCTTTTAAAACTGGCATCATTTCCCTGTGTAAAGCAATTGGAAAGACA 1260
Db 1455 TCCGTGTCTGCTTTTAAAACTGGCATCATTTCCCTGTGTAAAGCAATTGGAAAGACA 1514
QY 1261 AGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCACAGATTTTTGAACCAAGCGAGGC 1320
Db 1515 AGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCACAGATTTTTGAACCAAGCGAGGC 1574
QY 1321 TGGGCTCTCTTCTGCATGATTTCTATCCAAATTCCAAAGACAGTTGGGTGAAGTGCATCTT 1380
Db 1575 TGGGCTCTCTTCTGCATGATTTCTATCCAAATTCCAAAGACAGTTGGGTGAAGTGCATCTT 1634
QY 1381 TTGGGGGAGTAACATGAGCCAAAGTGTCCGAGAGCTGCTTCCAATTGGCTAATAATAGC 1440
Db 1635 TTGGGGGAGTAACATGAGCCAAAGTGTCCGAGAGCTGCTTCCAATTGGCTAATAATAGC 1694
QY 1441 CAGAGATCGAAGCGCCCTCTTCTAGACTGATGAGACTGAAACCCAGTCCATGTGT 1500
Db 1695 CAGAGATCGAAGCGCCCTCTTCTAGACTGATGAGACTGAAACCCAGTCCATGTGT 1754
QY 1501 G 1501
Db 1755 G 1755

RESULT 4

US-09-949-016-2804
; Sequence 2804, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949, 016

; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2804
; LENGTH: 7070
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-2804

Query Match 99.9%; Score 1499.4; DB 4; length 7070;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1500; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TCAACATTAGGTCCCATTTGGAAGCCAGTTCTGACCAAGTGAAGCGCTCTGCACCTTTCTC 60
Db 1769 TCAACATTAGGTCCCATTTGGAAGCCAGTTCTGACCAAGTGAAGCGCTCTGCACCTTTCTC 1828
QY 61 TGCAGAACTTCTGTGTGGCTACAGCTGAAAGATGATGAATTAAGCCGGCAGGCACTTA 120
Db 1829 TGCAGAACTTCTGTGTGGCTACAGCTGAAAGATGATGAATTAAGCCGGCAGGCACTTA 1888
QY 121 TTGGAGCGACTTTCAGAGCTTCAGAGCAGAACGATGTACATAGGGCTTCAAGAGGG 180
Db 1889 TTGGAGCGACTTTCAGAGCTTCAGAGCAGAACGATGTACATAGGGCTTCAAGAGGG 1948
QY 181 AATTGAAAACTAAAGACCTGTATCATGTAGTACTTTGAGACTGTACGAATATTTCTGA 240
Db 1949 AATTGAAAACTAAAGACCTGTATCATGTAGTACTTTGAGACTGTACGAATATTTCTGA 2008
QY 241 CAGAGCAGCCTTTGGAAGGACTAGAGAACTCTAACAGAGCCCAAGAGCTGCCTCTCTG 300
Db 2009 CAGAGCAGCCTTTGGAAGGACTAGAGAACTCTAACAGAGCCCAAGAGCTGCCTCTCTG 2068
QY 301 AGAGAGAGCCCGAAGATGTCACCTCGGCTTTACGAAAGCAGGCTGAGAGGTCAATACTG 360
Db 2069 AGAGAGAGCCCGAAGATGTCACCTCGGCTTTACGAAAGCAGGCTGAGAGGTCAATACTG 2128
QY 361 AGTGGAAAAATTTGAACCTGCACTCCGCTGACTGGCAGAGAAAAATGATGAGACCCTTG 420
Db 2129 AGTGGAAAAATTTGAACCTGCACTCCGCTGACTGGCAGAGAAAAATGATGAGACCCTTG 2188
QY 421 AAAGACTCCAGAACTTCAAGAGGCCAGGATGAGCTGGAACCTCAAGCTGCAGCAAGCTG 480
Db 2189 AAAGACTCCAGAACTTCAAGAGGCCAGGATGAGCTGGAACCTCAAGCTGCAGCAAGCTG 2248
QY 481 AGTGATCAAGGATCCTGGCAGCCGTTGGCGATCTCTCATTTGACTCTCTCCAGATC 540
Db 2249 AGTGATCAAGGATCCTGGCAGCCGTTGGCGATCTCTCATTTGACTCTCTCCAGATC 2308
QY 541 ACCTCGAAGAAAGTCAAGGCACTTCGAGGAGAAATTTGGCCTCTGAAAGAGAACGTGAGCC 600
Db 2309 ACCTCGAAGAAAGTCAAGGCACTTCGAGGAGAAATTTGGCCTCTGAAAGAGAACGTGAGCC 2368
QY 601 ACGTCAATGACCTTGTCTGCCAGCTTACCACCTTTGGGCAATTGAGCTCTCAACGTAATAAC 660
Db 2369 ACGTCAATGACCTTGTCTGCCAGCTTACCACCTTTGGGCAATTGAGCTCTCAACGTAATAAC 2428
QY 661 TCAGCACTCTGGAAGACCTGAAACACCAAGATGGAAGCTTCTGCAAGGTGGCCGTCGAGACC 720
Db 2429 TCAGCACTCTGGAAGACCTGAAACACCAAGATGGAAGCTTCTGCAAGGTGGCCGTCGAGACC 2488
QY 721 GAGTCAGGACGCTGCATGAAAGCCCAAGGACCTTTGGTCCAGCATCTCAGCACTTCTTT 780
Db 2489 GAGTCAGGACGCTGCATGAAAGCCCAAGGACCTTTGGTCCAGCATCTCAGCACTTCTTT 2548
QY 781 CCACGTCTGTCCAGGGTCCCTGGAGAGAGGCATCTCGCCAAACAAAGTGCCCTACTATA 840

Db 2549 CCACGTCGTCCAGGGTCCCTGGAGAGAGCCATCTCGCCAAACAAAGTGCCCTACTATA 2608
QY 841 TCACCAAGAGACTCAAAACAACCTTGCTGGACATCCCAAAATGACAGAGCTCTACCACT 900
Db 2609 TCACCAAGAGACTCAAAACAACCTTGCTGGACATCCCAAAATGACAGAGCTCTACCACT 2668
QY 901 CTTAGCTGACCTGAATAATGTGATGATTCAGCTTATAGAGAGCTGCAAGAACTCCGAA 960
Db 2669 CTTAGCTGACCTGAATAATGTGATGATTCAGCTTATAGAGAGCTGCAAGAACTCCGAA 2728
QY 961 GACTGCAGAGGCCCTTGCTGGATCTCTGAGCCTGTCAAGTGCATGTGATGCTTGG 1020
Db 2729 GACTGCAGAGGCCCTTGCTGGATCTCTGAGCCTGTCAAGTGCATGTGATGCTTGG 2788
QY 1021 ACCAGCACAACCTCAAGCAAAATGACCAAGCCCATGGATATCTGAGATTATTAATTGT 1080
Db 2789 ACCAGCACAACCTCAAGCAAAATGACCAAGCCCATGGATATCTGAGATTATTAATTGT 2848
QY 1081 TGACCACTATTATGACCGCCTGAGCAAGACAACAATTGGTCAACGTCCTCTCT 1140
Db 2849 TGACCACTATTATGACCGCCTGAGCAAGACAACAATTGGTCAACGTCCTCTCT 2908
QY 1141 GCGTGATATGTCTGAACTGCTGCTGTAAGTTATGATACGAGCAAGAGGA 1200
Db 2909 GCGTGATATGTCTGAACTGCTGCTGTAAGTTATGATACGAGCAAGAGGA 2968
QY 1201 TCCGTGCTGCTTTTAAACTGSCATCATTTCCCTGTGTAAGCACAATTGGAAGACA 1260
Db 2969 TCCGTGCTGCTTTTAAACTGSCATCATTTCCCTGTGTAAGCACAATTGGAAGACA 3028
QY 1261 AGTACAGATACCTTTTCAAGCAAGTGSCAAGTTCAACAGATTGTTGACCAAGCAGGC 1320
Db 3029 AGTACAGATACCTTTTCAAGCAAGTGSCAAGTTCAACAGATTGTTGACCAAGCAGGC 3088
QY 1321 TGGGCTCTTCTGATGATTTCTATCCAAATTCGAAGACAGTTGGGTGAAGTGCATCT 1380
Db 3089 TGGGCTCTTCTGATGATTTCTATCCAAATTCGAAGACAGTTGGGTGAAGTGCATCT 3148
QY 1381 TTGGGGCAGTAACATTGAGCCAAAGTGCCGAGCTGCTTCCAATTGCTAATAATAAGC 1440
Db 3149 TTGGGGCAGTAACATTGAGCCAAAGTGCCGAGCTGCTTCCAATTGCTAATAATAAGC 3208
QY 1441 CAGAGATCAAGGGCCCTCTCTAGACTGATGAGACTGGAACCCAGTCCATGTGT 1500
Db 3209 CAGAGATCAAGGGCCCTCTCTAGACTGATGAGACTGGAACCCAGTCCATGTGT 3268
QY 1501 G 1501
Db 3269 G 3269

RESULT 5
US-09-949-016-2805
; Sequence 2805, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2805
; LENGTH: 7070
; TYPE: DNA

; ORGANISM: Human
US-09-949-016-2805
Query Match 99.9%; Score 1499.4; DB 4; Length 7070;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1500; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1 TCACATTAGTCCCATTTGGAGGCCAGTTCTGACCAGTGGAAGCGTCTGCACTTCTC 60
Db 1769 TCACATTAGTCCCATTTGGAGGCCAGTTCTGACCAGTGGAAGCGTCTGCACTTCTC 1828
QY 61 TGCAGAACTTCTGGTGTGGCTACAGCTGAAAGATGATGAATTAAAGCCGACAGCCTTA 120
Db 1829 TGCAGAACTTCTGGTGTGGCTACAGCTGAAAGATGATGAATTAAAGCCGACAGCCTTA 1888
QY 121 TTGAGGCGACTTCCAGCAGTTCAAGAGCAGAAAGATGTACATAGGCGCTTCAAGAGGG 180
Db 1889 TTGAGGCGACTTCCAGCAGTTCAAGAGCAGAAAGATGTACATAGGCGCTTCAAGAGGG 1948
QY 181 AATTGAAAACCTAAGAACTGTATCATGAGTACTCTTGAGACTGTACGAATATTCTGA 240
Db 1949 AATTGAAAACCTAAGAACTGTATCATGAGTACTCTTGAGACTGTACGAATATTCTGA 2008
QY 241 CAGAGCAGCTTTGGAAAGACTAGAGAACTCTACAGAGGCCAGAGAGCTGCTCCTG 300
Db 2009 CAGAGCAGCTTTGGAAAGACTAGAGAACTCTACAGAGGCCAGAGAGCTGCTCCTG 2068
QY 301 AGAGAGAGCCCAAGATGTCACTCGCTCTTCAAGAAAGCAGGCTGAGAGGTCAATACTG 360
Db 2069 AGAGAGAGCCCAAGATGTCACTCGCTCTTCAAGAAAGCAGGCTGAGAGGTCAATACTG 2128
QY 361 AGTGGAAAAATTGAACCTGCACTCGCTGACTGCAAGAAAAATGATGAGACCCTTG 420
Db 2129 AGTGGAAAAATTGAACCTGCACTCGCTGACTGCAAGAAAAATGATGAGACCCTTG 2188
QY 421 AAAGACTCAGAACTTCAAGAGGCCAGAGTGAAGTGAAGCTCAAGCTGCGCAAGCTG 480
Db 2189 AAAGACTCAGAACTTCAAGAGGCCAGAGTGAAGTGAAGCTCAAGCTGCGCAAGCTG 2248
QY 481 AGGTGATCAAGGATCCTGGCAGCCCGTGGCGATCTCCTCATTTGACTCTCTCCAAGATC 540
Db 2249 AGGTGATCAAGGATCCTGGCAGCCCGTGGCGATCTCCTCATTTGACTCTCTCCAAGATC 2308
QY 541 ACCTCGAGAAAGTCAAGGCACTTCAAGGAAATTCGCGCTCTGAAGAGAAAGTGAAGCC 600
Db 2309 ACCTCGAGAAAGTCAAGGCACTTCAAGGAAATTCGCGCTCTGAAGAGAAAGTGAAGCC 2368
QY 601 ACGTCAATGACCTTCTGCGCAGCTTACCACTTTGGGCATTCAAGCTTCAACCGTATAACC 660
Db 2369 ACGTCAATGACCTTCTGCGCAGCTTACCACTTTGGGCATTCAAGCTTCAACCGTATAACC 2428
QY 661 TCAGACTCTGGAAGACCTGAACAACAGATGAAGCTTCTGCAAGTGCGCTGAGGACC 720
Db 2429 TCAGACTCTGGAAGACCTGAACAACAGATGAAGCTTCTGCAAGTGCGCTGAGGACC 2488
QY 721 GAGTCAGGCAAGTCAAGAGCCCAAGGACTTTGTCAGAGCATCTCAAGCACTTCTTT 780
Db 2489 GAGTCAGGCAAGTCAAGAGCCCAAGGACTTTGTCAGAGCATCTCAAGCACTTCTTT 2548
QY 781 CCACGTCGTCCAGGGTCCCTGGGAGAGGCACTCTGCCAAACAAAGTGCCCTACTATA 840
Db 2549 CCACGTCGTCCAGGGTCCCTGGGAGAGGCACTCTGCCAAACAAAGTGCCCTACTATA 2608
QY 841 TCACCAAGAGACTCAAAACAACCTTGCTGGACATCCCAAAATGACAGAGCTCTACCACT 900
Db 2609 TCACCAAGAGACTCAAAACAACCTTGCTGGACATCCCAAAATGACAGAGCTCTACCACT 2668
QY 901 CTTAGCTGACCTGAATAATGTGATGATTCAGCTTATAGAGAGCTGCAAGAACTCCGAA 960
Db 2669 CTTAGCTGACCTGAATAATGTGATGATTCAGCTTATAGAGAGCTGCAAGAACTCCGAA 2728
QY 961 GACTGCAGAGGCCCTTGCTGGATCTCTGAGCCTGTCAAGTGCATGTGATGCTTGG 1020

Db 2729 GACTGCAGAAAGCCCTTGTGCTTGATCTCTTGAGCCTGTGACGTGATGATGCCTTG 2788
QY 1021 ACCAGCACAACTTCAAGCAAAATGACCAGCCCATGGATATCCCTGCAATTAATTTGTT 1080
Db 2789 ACCAGCACAACTTCAAGCAAAATGACCAGCCCATGGATATCCCTGCAATTAATTTGTT 2848
QY 1081 TGACCACCTATTATGACCGCCTGGAGCAAGACACAACATTTGGTCAACGTCCCTCTCT 1140
Db 2849 TGACCACCTATTATGACCGCCTGGAGCAAGACACAACATTTGGTCAACGTCCCTCTCT 2908
QY 1141 GCGTGATATGTGTCTGAACTGCTGCTGAATGTTATGATACGGGACGAACAGGAGGA 1200
Db 2909 GCGTGATATGTGTCTGAACTGCTGCTGAATGTTATGATACGGGACGAACAGGAGGA 2968
QY 1201 TCCGTGTCTGTCTTTTAAACTGGCATCATTTCCCTGTGTAAAGCACATTTGGAAGCA 1260
Db 2969 TCCGTGTCTGTCTTTTAAACTGGCATCATTTCCCTGTGTAAAGCACATTTGGAAGCA 3028
QY 1261 AGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCAACAGATTTTGTGACAGCGCAGGC 1320
Db 3029 AGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCAACAGATTTTGTGACAGCGCAGGC 3088
QY 1321 TGGGCTCTCTCTGATGATTTCTAATCCAAATTTCCAGACAGTTGGGTGAAGTTGCATCCT 1380
Db 3089 TGGGCTCTCTCTGATGATTTCTAATCCAAATTTCCAGACAGTTGGGTGAAGTTGCATCCT 3148
QY 1381 TTGGGGGAGTAAACATTTGAGCCCAAGTGTCCGAGCTGCTTCCAATTTGCTAATAAAGC 1440
Db 3149 TTGGGGGAGTAAACATTTGAGCCCAAGTGTCCGAGCTGCTTCCAATTTGCTAATAAAGC 3208
QY 1441 CAGAGATCGAAGCGCCCTCTTCTAGACTGATGAGACTGGAACCCCACTCATGTGT 1500
Db 3209 CAGAGATCGAAGCGCCCTCTTCTAGACTGATGAGACTGGAACCCCACTCATGTGT 3268
QY 1501 G 1501
Db 3269 G 3269

RESULT 6
US-09-949-016-2806
; Sequence 2806, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949, 016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2806
; LENGTH: 7070
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-2806

Query Match 99.9%; Score 1499.4; DB 4; Length 7070;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1500; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TCACATTAAGTCCCATTTGGAAGCCAGTTCTGACAGTGAAGCGTCTGCACCTTTCTC 60
Db 1769 TCACATTAAGTCCCATTTGGAAGCCAGTTCTGACAGTGAAGCGTCTGCACCTTTCTC 1828
QY 61 TCGAGGAACCTTGTGTGGCTACAGCTGAAAGATGATGAATTAAGCGGCGAGCACCTA 120

Db 1829 TCGAGGAACCTTGTGTGGCTACAGCTGAAAGATGATGAATTAAGCGGCGAGCACCTA 1888
QY 121 TTGAGGCGACTTTCCAGCAGTTTCAAGCAGAAAGATGTACATAGGGCCTTCAAGAGG 180
Db 1889 TTGAGGCGACTTTCCAGCAGTTTCAAGCAGAAAGATGTACATAGGGCCTTCAAGAGG 1948
QY 181 AATTGAAACTAAAGAACTGTAAATGATGATCTTTGAGCTGTACGAATATTCTGA 240
Db 1949 AATTGAAACTAAAGAACTGTAAATGATGATCTTTGAGCTGTACGAATATTCTGA 2008
QY 241 CAGAGCAGCCTTTGGAAGACTAGAGAACTTACAGAGCCCAAGAGCTGCTCCTG 300
Db 2009 CAGAGCAGCCTTTGGAAGACTAGAGAACTTACAGAGCCCAAGAGCTGCTCCTG 2068
QY 301 AGAGAGAGCCCAAGATGTCACTCGGCTTCTACGAAGAGAGCTGAGAGGTCAATACTG 360
Db 2069 AGAGAGAGCCCAAGATGTCACTCGGCTTCTACGAAGAGAGCTGAGAGGTCAATACTG 2128
QY 361 AGTGGAAAAATTGAACCTGCACTCCGCTGACTGGCAGAAAAATAGATGACCTTG 420
Db 2129 AGTGGAAAAATTGAACCTGCACTCCGCTGACTGGCAGAAAAATAGATGACCTTG 2188
QY 421 AAAGACTCCAGGAACCTTCAAGAGGCCACGATGAGCTGCACTCAAGCTGCGCCAAAGCTG 480
Db 2189 AAAGACTCCGGAACCTTCAAGAGGCCACGATGAGCTGCACTCAAGCTGCGCCAAAGCTG 2248
QY 481 AGGTGATCAAGGATCTCTGGCAGCCCGTGGCGATCTCTCATTTGACTCTCTCAAGATC 540
Db 2249 AGGTGATCAAGGATCTCTGGCAGCCCGTGGCGATCTCTCATTTGACTCTCTCAAGATC 2308
QY 541 ACTTCGAGAAAGTCAAGGCACTTCAAGAGAAATTGCGCTCTGAAAGAGAAAGTGAAGCC 600
Db 2309 ACTTCGAGAAAGTCAAGGCACTTCAAGAGAAATTGCGCTCTGAAAGAGAAAGTGAAGCC 2368
QY 601 ACGTCAATGACCTTGTCTGCCAGCTTACCATTTGGGCATTGAGCTCTCAACGTATAAC 660
Db 2369 ACGTCAATGACCTTGTCTGCCAGCTTACCATTTGGGCATTGAGCTCTCAACGTATAAC 2428
QY 661 TCAGCACTCTGGAAGACCTGAAACACAGATGGAAGCTTCTGCAAGTGGCCGTGAGAGCC 720
Db 2429 TCAGCACTCTGGAAGACCTGAAACACAGATGGAAGCTTCTGCAAGTGGCCGTGAGAGCC 2488
QY 721 GAGTCAAGGCACTGATGAAGCCCAAGGCACTTTGTCTCAGCATCTCAGACATTTCTT 780
Db 2489 GAGTCAAGGCACTGATGAAGCCCAAGGCACTTTGTCTCAGCATCTCAGACATTTCTT 2548
QY 781 CCAAGTGTCTCAGGGTCCCTGGGAGAGAGCCATCTGCCCCAAACAAAGTGCCCTACTATA 840
Db 2549 CCAAGTGTCTCAGGGTCCCTGGGAGAGAGCCATCTGCCCCAAACAAAGTGCCCTACTATA 2608
QY 841 TCAACCAAGAGACTCAAAACAACTTGTCTGGGAGACCATCCCAAAATGACAGAGCTTACCA 900
Db 2609 TCAACCAAGAGACTCAAAACAACTTGTCTGGGAGACCATCCCAAAATGACAGAGCTTACCA 2668
QY 901 CTTTGAAGTCACTGAATAATGTCAAGTTCTCAGCTTATAGAGACTGCCATGAACTCCGAA 960
Db 2669 CTTTGAAGTCACTGAATAATGTCAAGTTCTCAGCTTATAGAGACTGCCATGAACTCCGAA 2728
QY 961 GACTGCAGAAAGCCCTTGTGGATCTCTTGAAGCTGTCAAGCTGCATGTGATGCCTTG 1020
Db 2729 GACTGCAGAAAGCCCTTGTGGATCTCTTGAAGCTGTCAAGCTGCATGTGATGCCTTG 2788
QY 1021 ACCAGCACAACTTCAAGCAAAATGACCAGCCCATGGATATCTGCAAGTTAATTTGTT 1080
Db 2789 ACCAGCACAACTTCAAGCAAAATGACCAGCCCATGGATATCTGCAAGTTAATTTGTT 2848
QY 1081 TGACCACCTATTATGACCGCCTGAGCAAGGACACAACATTTGGTCAACGTCCCTCTCT 1140
Db 2849 TGACCACCTATTATGACCGCCTGAGCAAGGACACAACATTTGGTCAACGTCCCTCTCT 2908
QY 1141 GCGTGATATGTGTCTGAACTGCTGCTGAATGTTATGATACGGGACGAACAGGAGGA 1200

Db 2909 GCGTGATATGTGTCTGAACTGGCTGCTGAATGTTATGATACGGGACGAACAGGAGACA 2968
QY 1201 TCCGTGCTGTCTTTTAAACCTGGCATATTTCCCTGTGTAAAGACATTTGGAAGACA 1260
Db 2969 TCCGTGCTGTCTTTTAAACCTGGCATATTTCCCTGTGTAAAGACATTTGGAAGACA 3028
QY 1261 AGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCAACAGATTTTGTGACCAGCGCAGGC 1320
Db 3029 AGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCAACAGATTTTGTGACCAGCGCAGGC 3088
QY 1321 TGGGCTCTCTTCTGCATGATTTCTATCCAAATTCCAAAGACAGTTGGGTGAAGTTGCATCCT 1380
Db 3089 TGGGCTCTCTTCTGCATGATTTCTATCCAAATTCCAAAGACAGTTGGGTGAAGTTGCATCCT 3148
QY 1381 TTGGGGGCGAGTAACATTGAGCCCAAGTGTCCGAGAGCTGCTTCCAATTGCTAATAATAAGC 1440
Db 3149 TTGGGGGCGAGTAACATTGAGCCCAAGTGTCCGAGAGCTGCTTCCAATTGCTAATAATAAGC 3208
QY 1441 CAGAGATCGAAGCGGCCCTCTTCTTACAGCTGAGATGAGACTGGAACCCAGTCCATGTGT 1500
Db 3209 CAGAGATCGAAGCGGCCCTCTTCTTACAGCTGAGATGAGACTGGAACCCAGTCCATGTGT 3268
QY 1501 G 1501
Db 3269 G 3269

RESULT 7
US-09-949-016-2807
; Sequence 2807, Application us/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949, 016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2807
; LENGTH: 7070
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-2807

Query Match 99.9%; Score 1499.4; DB 4; Length 7070;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1500; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1 TCAACATTAGTCCCATTTGGAAGCCAGTTCTGACCAGTGAAGCGTCTGCACCTTCTC 60
Db 1769 TCAACATTAGTCCCATTTGGAAGCCAGTTCTGACCAGTGAAGCGTCTGCACCTTCTC 1828
QY 61 TGCAGGAAGTCTGTGTGGCTACAGCTGAAGATGATGATTAAGCCGCGCAGGACCTA 120
Db 1829 TGCAGGAAGTCTGTGTGGCTACAGCTGAAGATGATGATTAAGCCGCGCAGGACCTA 1888
QY 121 TTGAGAGGCACTTTCCAGCAGTTCAAGAGCAAGCATGTACATAGGGCTTCAAGAGG 180
Db 1889 TTGAGAGGCACTTTCCAGCAGTTCAAGAGCAAGCATGTACATAGGGCTTCAAGAGG 1948
QY 181 AATTGAAACTAAGAAGCTGTATCATGAGTACTCTTGAGACTGTACGAATATTCTGA 240
Db 1949 AATTGAAACTAAGAAGCTGTATCATGAGTACTCTTGAGACTGTACGAATATTCTGA 2008
QY 241 CAGAGCAGCTTTGGAAGGACTAGAGAACTTACCAAGAGCCAGAGAGCTGCTCCTG 300

Db 2009 CAGAGCAGCTTTGGAAGACTAGAGAACTCTACAGAGGCCAGAGAGCTGCTCCTG 2068
QY 301 AGGAGAGAGCCAGATGTCACTGGCTTCTACGAAAGCAGCTGAGAGGTCAATACCTG 360
Db 2069 AGGAGAGAGCCAGATGTCACTGGCTTCTACGAAAGCAGCTGAGAGGTCAATACCTG 2128
QY 361 AGTGGGAAAATTGAACCTGCACTCCGCTGACTGGCAGAGAAAATAGATGAGACCCTTG 420
Db 2129 AGTGGGAAAATTGAACCTGCACTCCGCTGACTGGCAGAGAAAATAGATGAGACCCTTG 2188
QY 421 AAAGACTCCAGGAATTCAAGAGGCCACGATGAGCTGAGCTCAAGCTGCGCCAAGCTG 480
Db 2189 AAAGACTCCAGGAATTCAAGAGGCCACGATGAGCTGAGCTCAAGCTGCGCCAAGCTG 2248
QY 481 AGGTGATCAAGGATCCTGGCAGCCGCTGGCGGATCTCTCAATTGACTCTCTCCAAGATC 540
Db 2249 AGGTGATCAAGGATCCTGGCAGCCGCTGGCGGATCTCTCAATTGACTCTCTCCAAGATC 2308
QY 541 ACCTGAGAAAGTCAAGGCACTTCAGAGAGAAATTGCGCTCTGAAAAGAGAACGTGAGCC 600
Db 2309 ACCTGAGAAAGTCAAGGCACTTCAGAGAGAAATTGCGCTCTGAAAAGAGAACGTGAGCC 2368
QY 601 ACGTCAATGACCTTGTCTGCGCCAGCTTACCACTTTGGGCATTCACTCTCACCGTATAACC 660
Db 2369 ACGTCAATGACCTTGTCTGCGCCAGCTTACCACTTTGGGCATTCACTCTCACCGTATAACC 2428
QY 661 TCAGCACTTGGAAAGACCTGAACACAGATGGAAGCTTCTGCAAGTGGCCGTGAGGACC 720
Db 2429 TCAGCACTTGGAAAGACCTGAACACAGATGGAAGCTTCTGCAAGTGGCCGTGAGGACC 2488
QY 721 GAGTCAGCAGCTGCATGAAGCCCAAGGACTTTGTGTCCAGCATCTCAGCACTTCTT 780
Db 2489 GAGTCAGCAGCTGCATGAAGCCCAAGGACTTTGTGTCCAGCATCTCAGCACTTCTT 2548
QY 781 CCAGCTGTCTCAGGCTCCCTGGAGAGAGCCATCTCGCCAAACAAGTGCCCTACTATA 840
Db 2549 CCAGCTGTCTCAGGCTCCCTGGAGAGAGCCATCTCGCCAAACAAGTGCCCTACTATA 2608
QY 841 TCAACCAAGAGACTCAAAACAACCTTGTGGAGACCATCCCAAAATGACAGAGCTTACCAGT 900
Db 2609 TCAACCAAGAGACTCAAAACAACCTTGTGGAGACCATCCCAAAATGACAGAGCTTACCAGT 2668
QY 901 CTTTAGCTGACCTGAATATGTCAAGTCTCAGCTTATAGAGCTGCCATGAAACTCCGAA 960
Db 2669 CTTTAGCTGACCTGAATATGTCAAGTCTCAGCTTATAGAGCTGCCATGAAACTCCGAA 2728
QY 961 GACTGCAAGAGCCCTTGTGATCTCTTGAAGCCCTGTCACTGATGTGATGCTTGG 1020
Db 2729 GACTGCAAGAGCCCTTGTGATCTCTTGAAGCCCTGTCACTGATGTGATGCTTGG 2788
QY 1021 ACCAGCAACCTCAAGCAAAATGACAGCCCATGATATCTGAGATTATTAATTGTT 1080
Db 2789 ACCAGCAACCTCAAGCAAAATGACAGCCCATGATATCTGAGATTATTAATTGTT 2848
QY 1081 TGACCACTATTATGACCGCTGAGACAGACACACAATTTGTCACAGTCCCTCTCT 1140
Db 2849 TGACCACTATTATGACCGCTGAGACAGACACACAATTTGTCACAGTCCCTCTCT 2908
QY 1141 GCGTGATATGTGTGAAGTGTGCTGATGATGTTATGATACGGGACGAACAGGAGGA 1200
Db 2909 GCGTGATATGTGTGAAGTGTGCTGATGATGTTATGATACGGGACGAACAGGAGGA 2968
QY 1201 TCCGTGCTGTCTTTTAAACCTGGCATATTTCCCTGTGTAAAGCACATTTGGAAGACA 1260
Db 2969 TCCGTGCTGTCTTTTAAACCTGGCATATTTCCCTGTGTAAAGCACATTTGGAAGACA 3028
QY 1261 AGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCAACAGATTTTGTGACCAGCGCAGGC 1320
Db 3029 AGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCAACAGATTTTGTGACCAGCGCAGGC 3088
QY 1321 TGGGCTCTCTTCTGCATGATTTCTATCCAAATTCCAGAGCAGTTGGGTGAAGTGCATCCT 1380

Db	3089	TGGGCCCTCTTCTGCATGATTCATCCAATTCAGAAGACAGTTGGGTGAAGTTGCATCCT	3148
QY	1381	TTGGGGGCGAGTAACATGTAGCCCAAGTGTCCGAGCTGCTTCCAAATTTGCTAATATAAGC	1440
Db	3149	TTGGGGGCGAGTAACATGTAGCCCAAGTGTCCGAGCTGCTTCCAAATTTGCTAATATAAGC	3208
QY	1441	CAGAGATCGAAGCGGCCCTCTTCTCTAGACTGTGATGAGACTGGAACCCCACTGCATGTGT	1500
Db	3209	CAGAGATCGAAGCGGCCCTCTTCTCTAGACTGTGATGAGACTGGAACCCCACTGCATGTGT	3268
QY	1501	G 1501	
Db	3269	G 3269	

RESULT 8

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US-09-949-016-2808
; Sequence 2808, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949, 016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241, 755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237, 768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231, 498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2808
; LENGTH: 7070
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-2808

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Query Match	Score	DB	Length
99.9%; Best Local Similarity	1499.4	4	7070;

Best local similarity	99.9%	Pred. No. 0;
Matches 1500; Conservative	0;	Mismatches 1; Indels 0; Gaps 0;

QY	1	TCACATTAGGTCCCATTTTGAAGCCAGTTCTGACCAGTGAAGCGTCTGCACCTTTCTC	60
Db	1769	TCAACATTAGGTCCCATTTTGAAGCCAGTTCTGACCAGTGAAGCGTCTGCACCTTTCTC	1828
QY	61	TGCAGGAATTCTGTGTGTGCTACAGCTGAAGAATGATGATTAATTAAGCCGGCAGGCACCTTA	120
Db	1829	TGCAGGAATTCTGTGTGTGCTACAGCTGAAGAATGATGATTAATTAAGCCGGCAGGCACCTTA	1888
QY	121	TTGAGGCGACTTTCACAGACTTCAGAACGAAACGATGTACATAGGGCCTTCAAGAGG	180
Db	1889	TTGAGGCGACTTTCACAGACTTCAGAACGAAACGATGTACATAGGGCCTTCAAGAGG	1948
QY	181	AATTGAAACTAAAGAACCTGTATCATGTACTCTTTGAGACTGTACGAATATTCTGA	240
Db	1949	AATTGAAACTAAAGAACCTGTATCATGTACTCTTTGAGACTGTACGAATATTCTGA	2008
QY	241	CAGAGACCTTTTGAAGACTAGAGAACTCTACCGAGGCCAGAGAGCTGCCCTCTG	300
Db	2009	CAGAGACCTTTTGAAGACTAGAGAACTCTACCGAGGCCAGAGAGCTGCCCTCTG	2068
QY	301	AGGAGAGAGCCCGAATGTCACTCGGCTTCTACGAAACGAGCTGAGAGGTCAATACTG	360
Db	2069	AGGAGAGAGCCCGAATGTCACTCGGCTTCTACGAAACGAGCTGAGAGGTCAATACTG	2128
QY	361	AGTGGAAAAATTGAACCTGCATCCGCTGACTGCGCAGAGAAAAATAGATGACACCCCTG	420
Db	2129	AGTGGAAAAATTGAACCTGCATCCGCTGACTGCGCAGAGAAAAATAGATGACACCCCTG	2188
QY	421	AAAGACTCCAGAACTTCAAAGAGGCCACGATGAGCTGGAACCTCAAGCTGCCCAAGCTG	480

Dp	2189	AAAGACTCCGGAACTTCAAGAGGCCACGGATGAGCTGGACCTTCAAGCTGCGCAAGCTG	2248
Qy	481	AGGTGATCAAGGGATCCTGGACGCCGTGGCGGATCTCCTCATTTGACTCTCTCCAAGATC	540
Dp	2249	AGGTGATCAAGGGATTCCTGGACGCCCGTGGCGGATCTCCTCATTTGACTCTCTCCAAGATC	2308
Qy	541	ACCTCGAAGAAAGTCAAGGCACTTCGAGAGAAATTCGCGCTCTGAAAGAGAAAGCTGAGCC	600
Dp	2309	ACCTCGAAGAAAGTCAAGGCACTTCGAGAGAAATTCGCGCTCTGAAAGAGAAAGCTGAGCC	2368
Qy	601	ACGTCAATGACCTTGCTGCTGCCAGCTTACCACTTTGGGCACTTCAGCTCTCACCGTATAAC	660
Dp	2369	ACGTCAATGACCTTGCTGCTGCCAGCTTACCACTTTGGGCACTTCAGCTCTCACCGTATAAC	2428
Qy	661	TCAGCACTCTGGAAAGACCTGAACACCATGGAAGCTTCTGACGGTGGCCGTGAGAGACC	720
Dp	2429	TCAGCACTCTGGAAAGACCTGAACACCATGGAAGCTTCTGACGGTGGCCGTGAGAGACC	2488
Qy	721	GAGTCAGGAGCTGCATGAAGCCACAGGGACTTTGGTCCAGCATCTCAGCACTTCTCTT	780
Dp	2489	GAGTCAGGAGCTGCATGAAGCCACAGGGACTTTGGTCCAGCATCTCAGCACTTCTCTT	2548
Qy	781	CCACGTCTGTCCAGGGTCCCTGGGAGAGAGCCATCTCGCCAAACAAAGTGCCTACTATA	840
Dp	2549	CCACGTCTGTCCAGGGTCCCTGGGAGAGAGCCATCTCGCCAAACAAAGTGCCTACTATA	2608
Qy	841	TCAACCAAGAGACTCAAAACAATTGCTGGAGACCATCCCAAATGACAGAGCTTACCAGT	900
Dp	2609	TCAACCAAGAGACTCAAAACAATTGCTGGAGACCATCCCAAATGACAGAGCTTACCAGT	2668
Qy	901	CTTTAGCTGACCTGAATATATGTCAAGATTCTCAGCTTATAGACTGCCATGAACTCCGAA	960
Dp	2669	CTTTAGCTGACCTGAATATATGTCAAGATTCTCAGCTTATAGACTGCCATGAACTCCGAA	2728
Qy	961	GACTGCAGAAAGGCCCTTTGGCTTGGATCTCTTGAGCCTGTCACTGCAATGTGATGCCCTTGG	1020
Dp	2729	GACTGCAGAAAGGCCCTTTGGCTTGGATCTCTTGAGCCTGTCACTGCAATGTGATGCCCTTGG	2788
Qy	1021	ACCAGCACAACCTCAAGCAAAATGACCAAGCCCATGGATATCCTGACAGATTATTAATTGTT	1080
Dp	2789	ACCAGCACAACCTCAAGCAAAATGACCAAGCCCATGGATATCCTGACAGATTATTAATTGTT	2848
Qy	1081	TGACCACTATTTATGACCGCCCTGAGACAAAGACACAACAATTGGTCAACGTCCTCTCT	1140
Dp	2849	TGACCACTATTTATGACCGCCCTGAGACAAAGACACAACAATTGGTCAACGTCCTCTCT	2908
Qy	1141	GCGTGGATATGTGCTGAACTGGCTGCTGAATGTTTATGATACGGGACGAACAGGAGGA	1200
Dp	2909	GCGTGGATATGTGCTGAACTGGCTGCTGAATGTTTATGATACGGGACGAACAGGAGGA	2968
Qy	1201	TCCGTGCTGCTCTTTTAAACCTGGCATCATTTCCCTGTGTAAAGCACATTTGGAAGACA	1260
Dp	2969	TCCGTGCTGCTCTTTTAAACCTGGCATCATTTCCCTGTGTAAAGCACATTTGGAAGACA	3028
Qy	1261	AGTACAGATACCTTTTCAAGCAAGTGCCAAAGTTTCAACAGAGATTTTGTGACCAAGCGAGGC	1320
Dp	3029	AGTACAGATACCTTTTCAAGCAAGTGCCAAAGTTTCAACAGAGATTTTGTGACCAAGCGAGGC	3088
Qy	1321	TGGGCTCTCTTGCAATGATTTCTAATCCAAATTCAGAAGAGTTGGGTGAAGTTGCATCCT	1380
Dp	3089	TGGGCTCTCTTGCAATGATTTCTAATCCAAATTCAGAAGAGTTGGGTGAAGTTGCATCCT	3148
Qy	1381	TTGGGGCAGTAACATGAGCCAAAGTGTCCGAGCTGCTTCCAATTTGCTAATAATAAGC	1440
Dp	3149	TTGGGGCAGTAACATGAGCCAAAGTGTCCGAGCTGCTTCCAATTTGCTAATAATAAGC	3208
Qy	1441	CAGAGATCGAAGCGGCCCTTCTCTAGACTGATGAGACTGGAACCCAGTCCATGTGT	1500
Dp	3209	CAGAGATCGAAGCGGCCCTTCTCTAGACTGATGAGACTGGAACCCAGTCCATGTGT	3268
Qy	1501	G 1501	

Db 3269 G 3269

RESULT 9

US-09-949-016-2809

; Sequence 2809, Application US/09949016

; Patent No. 6812339

; GENERAL INFORMATION:

; APPLICANT: VENTER, J. Craig et al.

; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED

; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF

; FILE REFERENCE: CL001307

; CURRENT APPLICATION NUMBER: US/09/949,016

; PRIOR FILING DATE: 2000-04-14

; PRIOR APPLICATION NUMBER: 60/241,755

; PRIOR FILING DATE: 2000-10-20

; PRIOR APPLICATION NUMBER: 60/237,768

; PRIOR FILING DATE: 2000-10-03

; PRIOR APPLICATION NUMBER: 60/231,498

; PRIOR FILING DATE: 2000-09-08

; NUMBER OF SEQ ID NOS: 207012

; SOFTWARE: FastSeq for Windows Version 4.0

; SEQ ID NO 2809

; LENGTH: 7070

; TYPE: DNA

; ORGANISM: Human

US-09-949-016-2809

Query Match 99.9%; Score 1499.4; DB 4; Length 7070;

Best Local Similarity 99.9%; Pred. No. 0;

Matches 1500; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TCACATTAGGTCCTCCATTGGAAGCCAGTTGACCAAGTGAAGCGCTGCACTTCTC 60

Db 1769 TCACATTAGGTCCTCCATTGGAAGCCAGTTGACCAAGTGAAGCGCTGCACTTCTC 1828

Qy 61 TGCAGAACTTGTGTGTGCTACAGCTGAAGATGATGAATTAAGCCGCGACGACCTA 120

Db 1829 TGCAGAACTTGTGTGTGCTACAGCTGAAGATGATGAATTAAGCCGCGACGACCTA 1888

Qy 121 TTGAGGCGACTTCCAGCAGTTCAAGAGCAAGATGATACATAGGCGCTCAAGAGG 180

Db 1889 TTGAGGCGACTTCCAGCAGTTCAAGAGCAAGATGATACATAGGCGCTCAAGAGG 1948

Qy 181 AATTGAAACTAAGAACCCTGTATCATGATGATCTTTGAGACTGTACGAATATTCTGA 240

Db 1949 AATTGAAACTAAGAACCCTGTATCATGATGATCTTTGAGACTGTACGAATATTCTGA 2008

Qy 241 CAGAGCAGCTTTGGAAGGACTAGAGAACTCTACAGAGCCCGACAGAGCTGCTCTG 300

Db 2009 CAGAGCAGCTTTGGAAGGACTAGAGAACTCTACAGAGCCCGACAGAGCTGCTCTG 2068

Qy 301 AGAGAGAGCCGAGAACTGCTCGCTTCTAAGAAAGCAGGCTGAGAGGCTCAATACTG 360

Db 2069 AGAGAGAGCCGAGAACTGCTCGCTTCTAAGAAAGCAGGCTGAGAGGCTCAATACTG 2128

Qy 361 AGTGGAATAATTGAACCTGCACTCCGCTGACTGGCAGAGAGAAAAATAGATGAGACCCTG 420

Db 2129 AGTGGAATAATTGAACCTGCACTCCGCTGACTGGCAGAGAGAAAAATAGATGAGACCCTG 2188

Qy 421 AAAGACTCCGGAATTCAAGAGGCCACCGATGAGCTGCAAGCTGCGCCAAAGCTG 480

Db 2189 AAAGACTCCGGAATTCAAGAGGCCACCGATGAGCTGCAAGCTGCGCCAAAGCTG 2248

Qy 481 AGTGATCAAGGATCTTGGCAGCCCGTGCGGATCTCTCATTTGACTCTCTCAAGATC 540

Db 2249 AGTGATCAAGGATCTTGGCAGCCCGTGCGGATCTCTCATTTGACTCTCTCAAGATC 2308

Qy 541 ACCTCGAAGAACTCAAGGCACTTGAAGAGAAATGCGCTCTGAAGAGAACTGAGCC 600

Db 2309 ACCTCGAAGAACTCAAGGCACTTGAAGAGAAATGCGCTCTGAAGAGAACTGAGCC 2368

Qy 601 ACGTCAATGACCTTGTCTGCGCAGCTTACCACTTTGGGCATTGAGCTCTGACCGTATAACC 660

Db 2369 ACGTCAATGACCTTGTCTGCGCAGCTTACCACTTTGGGCATTGAGCTCTGACCGTATAACC 2428

Qy 661 TCAGACTCTGGAAGACCTGAACACCATGGAAGCTTCTGAGGTGGCCGTCGAGACC 720

Db 2429 TCAGACTCTGGAAGACCTGAACACCATGGAAGCTTCTGAGGTGGCCGTCGAGACC 2488

Qy 721 GAGTCAGGCACTGCATGAAGCCCAAGGCACTTTGGTCCAGCATCTCAGCACTTCTTT 780

Db 2489 GAGTCAGGCACTGCATGAAGCCCAAGGCACTTTGGTCCAGCATCTCAGCACTTCTTT 2548

Qy 781 CCACGTCTGTCCAGGGTCCCTGGGAGAGACCATCTCGCCAAAGTGCCCTACTATA 840

Db 2549 CCACGTCTGTCCAGGGTCCCTGGGAGAGACCATCTCGCCAAAGTGCCCTACTATA 2608

Qy 841 TCAACCAAGAGACTCAACAACTTGTGGAGACCATCCCAAAATGACAGAGCTCTACAGT 900

Db 2609 TCAACCAAGAGACTCAACAACTTGTGGAGACCATCCCAAAATGACAGAGCTCTACAGT 2668

Qy 901 CTTAGCTGACCTGAATATGTCAGATTCTCAGCTTATAGAGCTGCATGAAGTCCGAA 960

Db 2669 CTTAGCTGACCTGAATATGTCAGATTCTCAGCTTATAGAGCTGCATGAAGTCCGAA 2728

Qy 961 GACTGCAGAGGCCCTTGTGCTTGATCTTTGAGCCTGTGAGCTGATGATGCTTGG 1020

Db 2729 GACTGCAGAGGCCCTTGTGCTTGATCTTTGAGCCTGTGAGCTGATGATGCTTGG 2788

Qy 1021 ACCAGCACAACCTCAAGCAAAATGACAGCCCATGATATCTGAGATTATTAATTGTT 1080

Db 2789 ACCAGCACAACCTCAAGCAAAATGACAGCCCATGATATCTGAGATTATTAATTGTT 2848

Qy 1081 TGACCACTATTATGACCGCTGAGAGACACAACTTTGTTCAAGCTCCCTCTCT 1140

Db 2849 TGACCACTATTATGACCGCTGAGAGACACAACTTTGTTCAAGCTCCCTCTCT 2908

Qy 1141 GCGTGATATGTCTGACTGGCTGTGATGTTATGATACGGAGCAACAGGAGGA 1200

Db 2909 GCGTGATATGTCTGACTGGCTGTGATGTTATGATACGGAGCAACAGGAGGA 2968

Qy 1201 TCCGTGTCTGCTTTTAAACTGGCATTTTCCCTGTGTAAAGCACATTTGGAAGACA 1260

Db 2969 TCCGTGTCTGCTTTTAAACTGGCATTTTCCCTGTGTAAAGCACATTTGGAAGACA 3028

Qy 1261 AGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCAACAGAGATTGTTGACAGCGCAGGC 1320

Db 3029 AGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCAACAGAGATTGTTGACAGCGCAGGC 3088

Qy 1321 TGGGCTCTCTTCTGATGATTTTCAAAATTCGAAGACAGTGGGTGAAGTGCATCCT 1380

Db 3089 TGGGCTCTCTTCTGATGATTTTCAAAATTCGAAGACAGTGGGTGAAGTGCATCCT 3148

Qy 1381 TTGGGGGCACTAATGAGCCAGTGTCCGAGAGCTGCTTCCAATTGCTAATAATAAGC 1440

Db 3149 TTGGGGGCACTAATGAGCCAGTGTCCGAGAGCTGCTTCCAATTGCTAATAATAAGC 3208

Qy 1441 CAGAGATGAAGCGGCCCTCTTCTTAGACTGATGAGACTGGAACCCCAAGTCCATGCTGT 1500

Db 3209 CAGAGATGAAGCGGCCCTCTTCTTAGACTGATGAGACTGGAACCCCAAGTCCATGCTGT 3268

Qy 1501 G 1501

Db 3269 G 3269

RESULT 10

US-09-949-016-2810

; Sequence 2810, Application US/09949016

; Patent No. 6812339

; GENERAL INFORMATION:

; APPLICANT: VENTER, J. Craig et al.

; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED

; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF

; FILE REFERENCE: CL001307

; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2810
; LENGTH: 7070
; TYPE: DNA
; ORGANISM: Human
; US-09-949-016-2810

Query Match 99.9%; Score 1499.4; DB 4; Length 7070;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1500; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TCAACATTAGTCCCATTTGGAGCCAGTTCTGACCAAGTGAAGCGCTCTGCACCTTTCTC 60
DB 1769 TCAACATTAGTCCCATTTGGAGCCAGTTCTGACCAAGTGAAGCGCTCTGCACCTTTCTC 1828
QY 61 TGCAGGAACCTTCTGTGTGGCTACAGCTGAAAGATGATGAATTAAGCCGGCAGGCACTTA 120
DB 1829 TGCAGGAACCTTCTGTGTGGCTACAGCTGAAAGATGATGAATTAAGCCGGCAGGCACTTA 1888
QY 121 TTGAGGCGACTTTCAGCAGTTTCAAGACGATGTACATAGGGCTTCAAGAGGG 180
DB 1889 TTGAGGCGACTTTCAGCAGTTTCAAGACGATGTACATAGGGCTTCAAGAGGG 1948
QY 181 AATTGAAACTAAAGAACCTGTATCATGAGTACTTTGAGACTGTACGAATATTCTGA 240
DB 1949 AATTGAAACTAAAGAACCTGTATCATGAGTACTTTGAGACTGTACGAATATTCTGA 2008
QY 241 CAGAGCAGCCTTTGGAGAGACTAGAGAACTTACCAAGAGCCCAAGAGCTGCCTCTG 300
DB 2009 CAGAGCAGCCTTTGGAGAGACTAGAGAACTTACCAAGAGCCCAAGAGCTGCCTCTG 2068
QY 301 AGGAGAGAGCCCAAGATGTCACTGGCTTCTACGAAAGCAGCTGAGAGGTCAATACTG 360
DB 2069 AGGAGAGAGCCCAAGATGTCACTGGCTTCTACGAAAGCAGCTGAGAGGTCAATACTG 2128
QY 361 AGTGGGAAAAATTGAACCTGCACCTCCGCTGACCTGCGCAGAGAAAAATAGATGAGACCCTTG 420
DB 2129 AGTGGGAAAAATTGAACCTGCACCTCCGCTGACCTGCGCAGAGAAAAATAGATGAGACCCTTG 2188
QY 421 AAAGACTCCAGGAATTCAAGAGGCGCAGGATGAGCTGCACTCAAGCTGCGCCAAAGCTG 480
DB 2189 AAAGACTCCGGAACCTTCAAGAGGCGCAGGATGAGCTGCACTCAAGCTGCGCCAAAGCTG 2248
QY 481 AGTGATCAAGGATCTTGCGAGCCCGTGGCGGATCTCCTCATTTGACTCTCTCCAAGATC 540
DB 2249 AGTGATCAAGGATCTTGCGAGCCCGTGGCGGATCTCCTCATTTGACTCTCTCCAAGATC 2308
QY 541 ACCTCGAAGAAAGTCAAGGCACTTCAAGAGAGAAATTTGCCCTTGAAGAGAAAGAGAAAGAGAGCC 600
DB 2309 ACCTCGAAGAAAGTCAAGGCACTTCAAGAGAGAAATTTGCCCTTGAAGAGAAAGAGAGAGCC 2368
QY 601 ACGTCAATGACCTTGTCTGCGCAGCTTACCACTTTGGGCAATTCAGCTCTCAACCGTATTAAC 660
DB 2369 ACGTCAATGACCTTGTCTGCGCAGCTTACCACTTTGGGCAATTCAGCTCTCAACCGTATTAAC 2428
QY 661 TCAGCACTCTGGAAGACCTGAACACCAAGATGAAGCTTCTGCAAGTGGCCGTGAGAGACC 720
DB 2429 TCAGCACTCTGGAAGACCTGAACACCAAGATGAAGCTTCTGCAAGTGGCCGTGAGAGACC 2488
QY 721 GAGTCAGGCAAGCTGATGAAGCCCAAGGCACTTTGGTCCAGCATCTCAGCACTTTCTTT 780
DB 2489 GAGTCAGGCAAGCTGATGAAGCCCAAGGCACTTTGGTCCAGCATCTCAGCACTTTCTTT 2548
QY 781 CCAAGTCTGTCCAGGGTCCCTGGGAGAGAGCCATCTGCCAAACAAAGTGCCTTAATA 840

DB 2549 CCACGTCTGTCCAGGGTCCCTGGGAGAGAGCCATCTGCCAAACAAAGTGCCCTACTATA 2608
QY 841 TCAACCAAGACTCAACAACTTGTCTGGGACCATCCCAAAATGACAGAGCTTACAGT 900
DB 2609 TCAACCAAGACTCAACAACTTGTCTGGGACCATCCCAAAATGACAGAGCTTACAGT 2668
QY 901 CTTAGCTGACCTGAATATGTCTGAGATTTCTGAGCTTATAGAGCTGCCATGAACCTCGAA 960
DB 2669 CTTAGCTGACCTGAATATGTCTGAGATTTCTGAGCTTATAGAGCTGCCATGAACCTCGAA 2728
QY 961 GACTGCAAGAGCCCTTGTCTGGATCTCTGAGCCTGTGAGCTGATGATGCTTGG 1020
DB 2729 GACTGCAAGAGCCCTTGTCTGGATCTCTGAGCCTGTGAGCTGATGATGCTTGG 2788
QY 1021 ACCAGCAACCTCAAGCAAAATGACCAAGCCCATGATATCTGAGATTTAATGTT 1080
DB 2789 ACCAGCAACCTCAAGCAAAATGACCAAGCCCATGATATCTGAGATTTAATGTT 2848
QY 1081 TGACCACTATTATGACCCGCTGAGCAAGAGCAACAATTTGTCAAGCTCCCTCT 1140
DB 2849 TGACCACTATTATGACCCGCTGAGCAAGAGCAACAATTTGTCAAGCTCCCTCT 2908
QY 1141 GCGTGATATGTCTGAACTGCGCTGTAATTTATGATACGGGAGCAAGAGAGGA 1200
DB 2909 GCGTGATATGTCTGAACTGCGCTGTAATTTATGATACGGGAGCAAGAGAGGA 2968
QY 1201 TCCGTGTCTCTTTTAAACTGGCATCATTTCCCTGTGTAAGCAATTTGGAAGACA 1260
DB 2969 TCCGTGTCTCTTTTAAACTGGCATCATTTCCCTGTGTAAGCAATTTGGAAGACA 3028
QY 1261 AGTACAGATACCTTTCAAGCAAGTGCGAAGTTCAACAGATTTTGTACCAAGCGAGGC 1320
DB 3029 AGTACAGATACCTTTCAAGCAAGTGCGAAGTTCAACAGATTTTGTACCAAGCGAGGC 3088
QY 1321 TGGGCTCTCTTGATGATTTCTATCCAAATTTCCAAGACAGTTGGGTGAAGTGCATCT 1380
DB 3089 TGGGCTCTCTTGATGATTTCTATCCAAATTTCCAAGACAGTTGGGTGAAGTGCATCT 3148
QY 1381 TTGGGGCAGTAACATTTAGGCCAAGTGTCCGAGAGCTGCTTCCAATTTGCTAATAATAGC 1440
DB 3149 TTGGGGCAGTAACATTTAGGCCAAGTGTCCGAGAGCTGCTTCCAATTTGCTAATAATAGC 3208
QY 1441 CAGAGATGAAGCGCCCTCTTCTTACCTGATGAGACTGGAACCCAGTCCATGTTGT 1500
DB 3209 CAGAGATGAAGCGCCCTCTTCTTACCTGATGAGACTGGAACCCAGTCCATGTTGT 3268
QY 1501 G 1501
DB 3269 G 3269

RESULT 11
US-09-949-016-2811
; Sequence 2811, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: C1001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; PRIOR FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2811
; LENGTH: 7070

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; TYPE: DNA
; ORGANISM: Human
US-09-949-016-2811

Query Match
Best Local Similarity 99.9%; Score 1499.4; DB 4; Length 7070;
Matches 1500; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TCAACATTAGTCCCATTTTGAAGCCAGTTCTGACCAGTGAAGCGTCTGCACCTTCTC 60
DB 1769 TCAACATTAGTCCCATTTTGAAGCCAGTTCTGACCAGTGAAGCGTCTGCACCTTCTC 1828
QY 61 TGCAGGAACCTTCTGCTGTGGCTACAGCTGAAGATGATGAATTAAGCCGCAAGGACCTA 120
DB 1829 TGCAGGAACCTTCTGCTGTGGCTACAGCTGAAGATGATGAATTAAGCCGCAAGGACCTA 1888
QY 121 TTGAGAGCGACTTTCCAGCAGTTCAGAAAGCAAGATGATGATGAGGCTTCAAGAGGG 180
DB 1889 TTGAGAGCGACTTTCCAGCAGTTCAGAAAGCAAGATGATGATGAGGCTTCAAGAGGG 1948
QY 181 AATTGAAACTTAAGAACTGTATATCATGATGATCTTGAGACTGTACGAATATTCTGA 240
DB 1949 AATTGAAACTTAAGAACTGTATATCATGATGATCTTGAGACTGTACGAATATTCTGA 2008
QY 241 CAGAGCAGCCTTGAAGAGCTAGAGAACTCTACAGAGCCCAAGAGCTGCCTCCTG 300
DB 2009 CAGAGCAGCCTTGAAGAGCTAGAGAACTCTACAGAGCCCAAGAGCTGCCTCCTG 2068
QY 301 AGGAGAGAGCCCAAGATGTCACTCGGCTTCTACGAAGCAGGCTGAGAGGTCAATACTG 360
DB 2069 AGGAGAGAGCCCAAGATGTCACTCGGCTTCTACGAAGCAGGCTGAGAGGTCAATACTG 2128
QY 361 AGTGGGAAAAATTGAACCTGCACCTCCGCTGACTGGCAGAGAAAAATAGATGAGACCCTTG 420
DB 2129 AGTGGGAAAAATTGAACCTGCACCTCCGCTGACTGGCAGAGAAAAATAGATGAGACCCTTG 2188
QY 421 AAAGACTCCAGGAACTTCAAGAGGCCACGAGTGAAGCTGCAAGCTGCGCCAAAGCTG 480
DB 2189 AAAGACTCCGGAACCTTCAAGAGGCCACGAGTGAAGCTGCAAGCTGCGCCAAAGCTG 2248
QY 481 AGTGATCAAGGATCTTGCGAGCCCGTGGCGATCTCTCATTTGACTCTCTCAAGATC 540
DB 2249 AGTGATCAAGGATCTTGCGAGCCCGTGGCGATCTCTCATTTGACTCTCTCAAGATC 2308
QY 541 ACCTCGAAGAAATCAAGGCACTTCGAGAGAGAAATGCGCCTCTGAAGAGAAAGTGAGCC 600
DB 2309 ACCTCGAAGAAATCAAGGCACTTCGAGAGAGAAATGCGCCTCTGAAGAGAAAGTGAGCC 2368
QY 601 ACGTCAATGACCTTGCTCGCCAGCTTACCACTTTGGGCATTCAAGCTCTCAACCGTATAAC 660
DB 2369 ACGTCAATGACCTTGCTCGCCAGCTTACCACTTTGGGCATTCAAGCTCTCAACCGTATAAC 2428
QY 661 TCAGCACTCTGGAAGACCTGAACACACAGATGAAGCTTCTGCAAGTGGCGCTGAGGACC 720
DB 2429 TCAGCACTCTGGAAGACCTGAACACACAGATGAAGCTTCTGCAAGTGGCGCTGAGGACC 2488
QY 721 GAGTCAGGCAAGCTGATGAAGCCACAGGAGCTTTGGTCCAGCATCTGACACTTTCTTT 780
DB 2489 GAGTCAGGCAAGCTGATGAAGCCACAGGAGCTTTGGTCCAGCATCTGACACTTTCTTT 2548
QY 781 CCAGCTGTGTCAGGGTCCCTGGAGAGAGAGCCATCTGCCAAACAAGTGCCTACTATA 840
DB 2549 CCAGCTGTGTCAGGGTCCCTGGAGAGAGAGCCATCTGCCAAACAAGTGCCTACTATA 2608
QY 841 TCAACCAAGAGACTCAAAACAACCTTGCTGGAGACCATCCCAAAATGACAGAGCTCTAACAGT 900
DB 2609 TCAACCAAGAGACTCAAAACAACCTTGCTGGAGACCATCCCAAAATGACAGAGCTCTAACAGT 2668
QY 901 CTTTAGCTGACCTGAATAATGTCAAGATTCTAGCTTATAGACTGCCATGAAACTCCGAA 960
DB 2669 CTTTAGCTGACCTGAATAATGTCAAGATTCTAGCTTATAGACTGCCATGAAACTCCGAA 2728
QY 961 GACTGCAGAAAGCCCTTTGCTTGATCTCTTGAGCCTGTGACGTGCATGTGATGCTCTTG 1020
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DB 2729 GACTGCAGAAAGCCCTTTGCTTGATCTCTGAGCCTGTGACGTGCATGTGATGCTTG 2788
QY 1021 ACCAGCAACCTCAAGCAAAATGACAGCCCATGATATCCAGATTAATTAATGTT 1080
DB 2789 ACCAGCAACCTCAAGCAAAATGACAGCCCATGATATCCAGATTAATTAATGTT 2848
QY 1081 TGACCACATTTATGACCGCCTGAGAGACAGACACAATTTGGTCAACGTCCCTCT 1140
DB 2849 TGACCACATTTATGACCGCCTGAGAGACAGACACAATTTGGTCAACGTCCCTCT 2908
QY 1141 GCGTGATATGTCTCTGAACCTGGCTGTAATGTTATGATACGGAGCAAGGAGGA 1200
DB 2909 GCGTGATATGTCTCTGAACCTGGCTGTAATGTTATGATACGGAGCAAGGAGGA 2968
QY 1201 TCCGTGCTGCTCTTTTAAACTGGCATCATTTCCCTGTGTAAAGCATTTGGAAGACA 1260
DB 2969 TCCGTGCTGCTCTTTTAAACTGGCATCATTTCCCTGTGTAAAGCATTTGGAAGACA 3028
QY 1261 AGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCAACAGATTTTGTGACAGCGAGGC 1320
DB 3029 AGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCAACAGATTTTGTGACAGCGAGGC 3088
QY 1321 TGGGCTCTCTTCTGCATGATTTCTATCCAAATTTCCAAAGACAGTTGGGTGAAGTGCATCCT 1380
DB 3089 TGGGCTCTCTTCTGCATGATTTCTATCCAAATTTCCAAAGACAGTTGGGTGAAGTGCATCCT 3148
QY 1381 TTGGGGGCAATACATTGAGCCCAAGTGTCCGAGCTGCTTCCAAATTTGCTAATATAAGC 1440
DB 3149 TTGGGGGCAATACATTGAGCCCAAGTGTCCGAGCTGCTTCCAAATTTGCTAATATAAGC 3208
QY 1441 CAGAGATGAAGCGCCCTCTTCTAGACTGATGAGACTGAAACCCAGTCCATGTGT 1500
DB 3209 CAGAGATGAAGCGCCCTCTTCTAGACTGATGAGACTGAAACCCAGTCCATGTGT 3268
QY 1501 G 1501
DB 3269 G 3269
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RESULT 12
US-09-949-016-2812
; Sequence 2812, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; PRIOR FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2812
; LENGTH: 7109
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-2812
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Query Match
Best Local Similarity 99.9%; Score 1499.4; DB 4; Length 7109;
Matches 1500; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TCAACATTAGTCCCATTTTGAAGCCAGTTCTGACCAGTGAAGCGTCTGCACCTTCTC 60
DB 1769 TCAACATTAGTCCCATTTTGAAGCCAGTTCTGACCAGTGAAGCGTCTGCACCTTCTC 1828
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QY	61	TCAGGAAC	TTCTGGTGTG	GGCTACAG	CTGAAAGATG	ATGAATTAAG	CCGGCAGCAC	CTTA	120
Db	1829	TGCAGGA	ACTTCTGGTGTG	GGCTACAG	CTGAAAGATG	ATGAATTAAG	CCGGCAGCAC	CTTA	1888
QY	121	TTGAGG	CGACTTTCCAG	CAGTTCA	GAGCAAGCA	CGATGTAC	ATAGGCTTCA	GAGG	180
Db	1889	TTGAGG	CGACTTTCCAG	CAGTTCA	GAGCAAGCA	CGATGTAC	ATAGGCTTCA	GAGG	1948
QY	181	AATGAAA	CTAAGAACTG	TATCATCA	TAGTACTCTT	GAGCTGTAC	GAATATTTCT	GTA	240
Db	1949	AATGAAA	CTAAGAACTG	TATCATCA	TAGTACTCTT	GAGCTGTAC	GAATATTTCT	GTA	2008
QY	241	CAGAGC	AGCTTTGGA	AGGACTAG	AGAACTCTAC	CAAGAGGCC	CAAGAGAGCT	GGCTCTG	300
Db	2009	CAGAGC	AGCTTTGGA	AGGACTAG	AGAACTCTAC	CAAGAGGCC	CAAGAGAGCT	GGCTCTG	2068
QY	301	AGGAGAG	CGCCAGAA	TGTCACTCGG	CTTCTACG	AAAGCAGCG	CTGAGAGGTCA	ATACTG	360
Db	2069	AGGAGAG	CGCCAGAA	TGTCACTCGG	CTTCTACG	AAAGCAGCG	CTGAGAGGTCA	ATACTG	2128
QY	361	AGTGGAAA	ATTGAAC	CTGCACTCCG	CTGACTGG	CAGAGAAAA	ATAGATGAG	AGCCCTTG	420
Db	2129	AGTGGAAA	ATTGAAC	CTGCACTCCG	CTGACTGG	CAGAGAAAA	ATAGATGAG	AGCCCTTG	2188
QY	421	AAAGACT	CCAGGAACTT	CAAGAGCC	AGATGAGCTG	AGCTCAAG	CTGCGCAAGCTG		480
Db	2189	AAAGACT	CCGGGAACTT	CAAGAGCC	AGATGAGCTG	AGCTCAAG	CTGCGCAAGCTG		2248
QY	481	AGGTGAT	CAAGGGATC	CTGGCAGCCG	TGGCGATCTC	CTCATTTG	ACTCTCTCCA	GATC	540
Db	2249	AGGTGAT	CAAGGGATC	CTGGCAGCCG	TGGCGATCTC	CTCATTTG	ACTCTCTCCA	GATC	2308
QY	541	ACCTCGA	AAAGTCAAGG	CACCTTCA	GAGAGAAATTTG	CGCCTCTGA	AAAGAGAACGTG	AGCC	600
Db	2309	ACCTCGA	AAAGTCAAGG	CACCTTCA	GAGAGAAATTTG	CGCCTCTGA	AAAGAGAACGTG	AGCC	2368
QY	601	ACGTCAAT	GACCTTGTCT	CGCCAGCTT	ACCACTTTGGG	CAATTCAG	CTCTCACCGTA	TAAAC	660
Db	2369	ACGTCAAT	GACCTTGTCT	CGCCAGCTT	ACCACTTTGGG	CAATTCAG	CTCTCACCGTA	TAAAC	2428
QY	661	TCAGCACT	CTGGAAGAC	CTTGAAC	CAACCAATG	GAAAGCTT	CTGCAGGTG	CGCTGAGGACC	720
Db	2429	TCAGCACT	CTGGAAGAC	CTTGAAC	CAACCAATG	GAAAGCTT	CTGCAGGTG	CGCTGAGGACC	2488
QY	721	GAGTCA	GCGCAGCTG	CATGAAGCC	CAAGGCACTT	TGGTCCAG	CATCTCAGCA	CTTTCTTT	780
Db	2489	GAGTCA	GCGCAGCTG	CATGAAGCC	CAAGGCACTT	TGGTCCAG	CATCTCAGCA	CTTTCTTT	2548
QY	781	CCACGT	CTGTCCAG	GGTCCCTGG	GAGAGAGCC	CACTCGCC	CAAACAAA	GTGCCCTACTATA	840
Db	2549	CCACGT	CTGTCCAG	GGTCCCTGG	GAGAGAGCC	CACTCGCC	CAAACAAA	GTGCCCTACTATA	2608
QY	841	TCAACCA	CGAGACTCA	AACTTGTCTG	GGACCATCC	CAAATGAC	AGACTCTAC	CAAGT	900
Db	2609	TCAACCA	CGAGACTCA	AACTTGTCTG	GGACCATCC	CAAATGAC	AGACTCTAC	CAAGT	2668
QY	901	CTTTAG	CTGACCTGA	ATAATGTCA	GTCTCAGCTT	ATAGGACTG	CCATGAAA	CTCCGAA	960
Db	2669	CTTTAG	CTGACCTGA	ATAATGTCA	GTCTCAGCTT	ATAGGACTG	CCATGAAA	CTCCGAA	2728
QY	961	GACTGCA	GAGGCCCTT	TGTCTTGAT	CTCTTGAG	CCCTGTCA	GCTGATGTG	ATGCCCTTG	1020
Db	2729	GACTGCA	GAGGCCCTT	TGTCTTGAT	CTCTTGAG	CCCTGTCA	GCTGATGTG	ATGCCCTTG	2788
QY	1021	ACCAGCA	CAACCTCA	AGCAAAATG	ACAGCCCATG	ATATCTCG	AGATTATTA	TTATTTGT	1080
Db	2789	ACCAGCA	CAACCTCA	AGCAAAATG	ACAGCCCATG	ATATCTCG	AGATTATTA	TTATTTGT	2848
QY	1081	TGACCAC	TATTTATGA	CCGCGCTG	GAGCAGAGCA	CAACAATTTG	GTCAACGTCC	CTCTCT	1140
Db	2849	TGACCAC	TATTTATGA	CCGCGCTG	GAGCAGAGCA	CAACAATTTG	GTCAACGTCC	CTCTCT	2908
QY	1141	GCGTGA	TATGTGTCTG	AACTGCTG	CTGAATGTT	TATGATAC	GGGACGAA	CAAGGAGGA	1200

Accession	Sequence	Length
Dp 2909	GCCTGATATGTCCTGAACCTGGCTGCTGAATGTTATGATACGGGACGAAACAGGAGGA	2968
QY 1201	TCCGTGTCCTGTCCTTTTAAAACTGGCATCATTTCCCTGTGTAAAGCACATTTGGAAGACA	1260
Dp 2969	TCCGTGTCCTGTCCTTTTAAAACTGGCATCATTTCCCTGTGTAAAGCACATTTGGAAGACA	3028
QY 1261	AGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCAACAGGATTTTGTGACCAAGCGCAGGC	1320
Dp 3029	AGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCAACAGGATTTTGTGACCAAGCGCAGGC	3088
QY 1321	TGGGCTCCTCTTCGATGATTTCTATCCAAATTCGAAGACAGTTGGGTGAAGTTGCATCCT	1380
Dp 3089	TGGGCTCCTCTTCGATGATTTCTATCCAAATTCGAAGACAGTTGGGTGAAGTTGCATCCT	3148
QY 1381	TTGGGGGCGAGTAACATTGAAGCCAAAGTGTCCGGAGCTGCTTCCAATTTGCTAATAATAAGC	1440
Dp 3149	TTGGGGGCGAGTAACATTGAAGCCAAAGTGTCCGGAGCTGCTTCCAATTTGCTAATAATAAGC	3208
QY 1441	CAGAGATCGAAGCGGCGCTCTTCTAGACTGGATGAGACTGGAACCCGACGTCCATGGTGT	1500
Dp 3209	CAGAGATCGAAGCGGCGCTCTTCTAGACTGGATGAGACTGGAACCCGACGTCCATGGTGT	3268
QY 1501	G 1501	
Dp 3269	G 3269	

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RESULT 13
US-09-949-016-2813
; Sequence 2813, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2813
; LENGTH: 7109
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-2813

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Query Match	Best Local Similarity	Score 1499.4;	DB 4;	Length 7109;
Matches 1500;	Conservative	0;	Mismatches 1;	Indels 0;
			Gaps	0;
QY	1	TCACATTAGGTCCCATTTGGAGCCAGTTCTGACCAGTGAAGCGTCTGCACCTTCTC	60	
Db	1769	TCAACATTAGGTCCCATTTGGAGCCAGTTCTGACCAGTGAAGCGTCTGCACCTTCTC	1828	
QY	61	TGCAGGAACTTCTGTGTGCTACAGCTGAAGATGATGAATTAAGCCGGCAGGCACCTA	120	
Db	1829	TGCAGGAACTTCTGTGTGCTACAGCTGAAGATGATGAATTAAGCCGGCAGGCACCTA	1888	
QY	121	TTGGAGCGCACTTTCACGAGTTCAGAAACAGACGATGTACATAGGCGCTTCAAGAGGG	180	
Db	1889	TTGGAGCGCACTTTCACGAGTTCAGAAACAGACGATGTACATAGGCGCTTCAAGAGGG	1948	
QY	181	AATTGAATACTAAAGAACCTGTAAATCATGAGTACTCTTGAGACTGTACGAATATTTCTGA	240	
Db	1949	AATTGAATACTAAAGAACCTGTAAATCATGAGTACTCTTGAGACTGTACGAATATTTCTGA	2008	

QY 241 CAGAGCAGCCTTTGGAAGGACTAGAGAACTCTACCGAGGCCCAGAGAGCTGCCTCCTG 300
| | | | |
Db 2009 CAGAGCAGCCTTTGGAAGGACTAGAGAACTCTACCGAGGCCCAGAGAGCTGCCTCCTG 2068
QY 301 AGGAGAGAGCCCAAGATGTCACTCGGCTTCTACGAAAGCAGGCTGAGAGGTCAATACTG 360
| | | | |
Db 2069 AGGAGAGAGCCCAAGATGTCACTCGGCTTCTACGAAAGCAGGCTGAGAGGTCAATACTG 2128
QY 361 AGTGGAAAAATTGAACCTGCACCTCCGCTGACTGGCAGAGAAAAATGATGAGACCCTTG 420
| | | | |
Db 2129 AGTGGAAAAATTGAACCTGCACCTCCGCTGACTGGCAGAGAAAAATGATGAGACCCTTG 2188
QY 421 AAAGACTCCAGGAACCTCAAGAGGCCACGGATGAGCTGACCTCAAGCTGCCCAAGCTG 480
| | | | |
Db 2189 AAAGACTCCGGGAACTTCAAGAGGCCACGGATGAGCTGACCTCAAGCTGCCCAAGCTG 2248
QY 481 AGGTGATCAAGGGATCTTGCGAGCCCGTGGCGATCTCCTCATTTGACTCTCTCAAGATC 540
| | | | |
Db 2249 AGGTGATCAAGGGATCTTGCGAGCCCGTGGCGATCTCCTCATTTGACTCTCTCAAGATC 2308
QY 541 ACCTCGAAGAACTCAAGGCACTTCGAGAGAAATTGCGCCTCTGAAGAGAACTGAGCC 600
| | | | |
Db 2309 ACCTCGAAGAACTCAAGGCACTTCGAGAGAAATTGCGCCTCTGAAGAGAACTGAGCC 2368
QY 601 ACGTCAATGACCTTGCTCGCCAGCTTACCACTTTGGGCATTCAAGCTCAACCGTATAAC 660
| | | | |
Db 2369 ACGTCAATGACCTTGCTCGCCAGCTTACCACTTTGGGCATTCAAGCTCAACCGTATAAC 2428
QY 661 TCAGCACTCTGGAAAGACCTGAAACACCAGATGGAAGCTTCTGCAAGGTGGCGCTGAGGACC 720
| | | | |
Db 2429 TCAGCACTCTGGAAAGACCTGAAACACCAGATGGAAGCTTCTGCAAGGTGGCGCTGAGGACC 2488
QY 721 GAGTCAGGCACTGCATGAAAGCCACAGGCACTTTGCTCAGCATCTCAGCACTTTCTTT 780
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Db 2489 GAGTCAGGCACTGCATGAAAGCCACAGGCACTTTGCTCAGCATCTCAGCACTTTCTTT 2548
QY 781 CCAGCTCTGTCCAGGGTCCCTGGAGAGAGCCATCTCGCCAAACAAAGTGCCCTACTATA 840
| | | | |
Db 2549 CCAGCTCTGTCCAGGGTCCCTGGAGAGAGCCATCTCGCCAAACAAAGTGCCCTACTATA 2608
QY 841 TCAACCAAGAGACTCAAAACAATTGCTGGGACCATCCCAAAATGACAGAGCTCTACAGT 900
| | | | |
Db 2609 TCAACCAAGAGACTCAAAACAATTGCTGGGACCATCCCAAAATGACAGAGCTCTACAGT 2668
QY 901 CTTTACGTGACCTGAATATATGTCAAGATCTCAGCTTATAGGACTGCCATGAAAACCTCCGAA 960
| | | | |
Db 2669 CTTTACGTGACCTGAATATATGTCAAGATCTCAGCTTATAGGACTGCCATGAAAACCTCCGAA 2728
QY 961 GACTGCAAGAGGCCCTTTGCTTGATCTCTTGAGCCTGTGAGCTGCACTGATGCTCTTG 1020
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Db 2729 GACTGCAAGAGGCCCTTTGCTTGATCTCTTGAGCCTGTGAGCTGCACTGATGCTCTTG 2788
QY 1021 ACCAGCAACAACCTCAAGCAAAATGACCAAGCCCATGATATCTGCAATTAATTGTT 1080
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Db 2789 ACCAGCAACAACCTCAAGCAAAATGACCAAGCCCATGATATCTGCAATTAATTGTT 2848
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Db 2849 TGACCACTATTATGACCCGCTGAGCAAGACCAACAATTTGTCACGTCCTCTCT 2908
QY 1141 GCGTGGATATGTGTCTGAACCTGCTGTAATGTTATGATACGGGACCAACAGGAGGA 1200
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Db 2909 GCGTGGATATGTGTCTGAACCTGCTGTAATGTTATGATACGGGACCAACAGGAGGA 2968
QY 1201 TCCGTGTCTGTCTTTTAAACTGCGCATATTTCCCTGTGTAAAGCACATTTGGAAGACA 1260
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Db 2969 TCCGTGTCTGTCTTTTAAACTGCGCATATTTCCCTGTGTAAAGCACATTTGGAAGACA 3028
QY 1261 AGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCACAGAGATTTTGTCACGCGCAGGC 1320
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Db 3029 AGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCACAGAGATTTTGTCACGCGCAGGC 3088
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Db 3089 TGGGCTCTCTCTGATGATTTCTATCCAAATTCACAGACAGTGGGTGAAGTTGATCTCT 3148
QY 1381 TTGGGGGAGTAACATTGAGCCCAAGTGTCCGGAGCTGCTTCCAAATTTGCTAATAATAAGC 1440
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Db 3149 TTGGGGGAGTAACATTGAGCCCAAGTGTCCGGAGCTGCTTCCAAATTTGCTAATAATAAGC 3208
QY 1441 CAGAGATCGAAGCGGCCCTTCTCTAGACTGATGAGACTGGAACCCCAAGTCCATGTGT 1500
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Db 3209 CAGAGATCGAAGCGGCCCTTCTCTAGACTGATGAGACTGGAACCCCAAGTCCATGTGT 3268
QY 1501 G 1501
|
Db 3269 G 3269

RESULT 14

US-09-949-016-2814
; Sequence 2814, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; PRIOR FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2814
; LENGTH: 7109
; TYPE: DNA
; ORGANISM: Human
; US-09-949-016-2814

Query Match 99.9%; Score 1499.4; DB 4; Length 7109;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1500; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TCAACATTAGTCCCATTTGGAAGCCAGTTCTGACCAGTGAAGCGTCTGACCTTTCTC 60
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Db 1769 TCAACATTAGTCCCATTTGGAAGCCAGTTCTGACCAGTGAAGCGTCTGACCTTTCTC 1828
QY 61 TGCAGAACTTCTGTGTGCTACAGCTGAAAGATGATGAATTAAGCCGAGGACCTA 120
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Db 1829 TGCAGAACTTCTGTGTGCTACAGCTGAAAGATGATGAATTAAGCCGAGGACCTA 1888
QY 121 TTGAGGGGACTTTCAGCACTTCAGAAAGCAAGACGATGTACATAGGGCTTCAAGAGGG 180
| | | | |
Db 1889 TTGAGGGGACTTTCAGCACTTCAGAAAGCAAGACGATGTACATAGGGCTTCAAGAGGG 1948
QY 181 AATTGAAAACTAAAGAACCTGTATCATGACTCTTTGAGACTGTACGAATATTCTGA 240
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Db 1949 AATTGAAAACTAAAGAACCTGTATCATGACTCTTTGAGACTGTACGAATATTCTGA 2008
QY 241 CAGAGCAGCCTTTGGAAGACTAGAGAACTCTACCAGAGGCCAGAGAGCTGCCTCCTG 300
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Db 2009 CAGAGCAGCCTTTGGAAGACTAGAGAACTCTACCAGAGGCCAGAGAGCTGCCTCCTG 2068
QY 301 AGGAGAGAGCCCAAGATGTCACTCGGCTTCTACGAAAGCAGGCTGAGAGGTCAATACTG 360
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Db 2069 AGGAGAGAGCCCAAGATGTCACTCGGCTTCTACGAAAGCAGGCTGAGAGGTCAATACTG 2128
QY 361 AGTGGAAAAATTGAACCTGCACCTCCGCTGACTGCGAGAGAAAAATAGATGAGACCCTTG 420
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Db 2129 AGTGGAAAAATTGAACCTGCACCTCCGCTGACTGCGAGAGAAAAATAGATGAGACCCTTG 2188

QY 421 AAAAGCTCCAGGAACCTTCAAGAGGCCACCGATGAGCTGGAACCTCAAGCTGGCCAAAGCTG 480
Db 2189 AAAGACTCCGGAACTTCAAGAGGCCACCGATGAGCTGGAACCTCAAGCTGGCCAAAGCTG 2248
QY 481 AGGTGATCAAGGGATCTGGCAGCCCGTGGCGATCTCTCATTTGACTCTCTCCAAGATC 540
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QY 541 ACCTCGAGAAAGTCAAGGCACTTCGAGAGAAATTGCGCTCTGAAGAGAAAGTGAGCC 600
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Db 2369 ACCTCAATGACCTTGTCTGCGCAGCTTACCACTTTGGGCACTTCACTCTCAACCGTATAAC 2428
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Db 2429 TCAGCACTCTGGAAGACCTGAACACCAAGATGGAAGCTTCTGAGGTGGCCGTGAGGACC 2488
QY 721 GAGTCAGGCACTGATGAGCCCAAGGGACTTTGTCAGCATCTCAGCACTTTCTTT 780
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Db 2669 CTTTACGTGACCTGAATAATGTCAGATTCTCAGCTTAAGGACTGCCATGAACTCCGAA 2728
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Db 3029 AGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCAACAGAGTTTGTGACCAAGGAGGC 3088
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Db 3149 TTGGGGGAGTAACATTGAGCCAGTGTCCGAGCTGCTTCCAATTTGTCTAATAAAGC 3208
QY 1441 CAGAGATCGAAGCGGCCCTTCTTAGACTGATGAGACTGGAACCCCAAGTCCATGTGT 1500
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QY 1501 G 1501

Db 3269 G 3269
RESULT 15
US-09-949-016-2815
; Sequence 2815, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2815
; LENGTH: 7109
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-2815
Query Match 99.9%; Score 1499.4; DB 4; Length 7109;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1500; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1 TCAACATTAGTCCCATTTTGAAGCCAGTTCTGACCAAGTGAAGCGCTGACACCTTCTC 60
Db 1769 TCAACATTAGTCCCATTTTGAAGCCAGTTCTGACCAAGTGAAGCGCTGACACCTTCTC 1828
QY 61 TGCAGGAACCTTCTGCTGTGGCTACAGCTGAAAGATGATGAATTAAGCCGAGGACCTTA 120
Db 1829 TGCAGGAACCTTCTGCTGTGGCTACAGCTGAAAGATGATGAATTAAGCCGAGGACCTTA 1888
QY 121 TTGAGGCGACTTTCCAGCAAGTTCAGAAAGCAAGCATGATGATGAGGCTTCAAGAGG 180
Db 1889 TTGAGGCGACTTTCCAGCAAGTTCAGAAAGCAAGCATGATGATGAGGCTTCAAGAGG 1948
QY 181 AATTGAAACTAAAGAACCTGTATCATGATGACTCTTGAGACTGTACGAATATTCTGA 240
Db 1949 AATTGAAACTAAAGAACCTGTATCATGATGACTCTTGAGACTGTACGAATATTCTGA 2008
QY 241 CAGAGCAGCTTTTGAAGGACTGAGAAACTCTACGAGAGCCAGAGAGCTGCTCCTG 300
Db 2009 CAGAGCAGCTTTTGAAGGACTGAGAAACTCTACGAGAGCCAGAGAGCTGCTCCTG 2068
QY 301 AGGAGAGAGCCAGAAATGCACTCGGCTTCTACGAAAGCAGGCTGAGAGGTCAATACTG 360
Db 2069 AGGAGAGAGCCAGAAATGCACTCGGCTTCTACGAAAGCAGGCTGAGAGGTCAATACTG 2128
QY 361 AGTGGGAAAAATTGAACCTGCACTCGGCTGCTGACGAGAGAAAAATGATGAGACCCTTG 420
Db 2129 AGTGGGAAAAATTGAACCTGCACTCGGCTGCTGACGAGAGAAAAATGATGAGACCCTTG 2188
QY 421 AAAGACTCCAGGAACCTTCAAGAGGCCAGGATGAGCTGGAACCTCAAGCTGGCCAGCTG 480
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QY 481 AGGTGATCAAGGGATCTGGCAGCCCGTGGCGATCTCTCATTTGACTCTCTCCAAGATC 540
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QY 541 ACCTCGAGAAAGTCAAGGCACTTCGAGAGAAATTGCGCTCTGAAGAGAAAGTGAGCC 600
Db 2309 ACCTCGAGAAAGTCAAGGCACTTCGAGAGAAATTGCGCTCTGAAGAGAAAGTGAGCC 2368

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OY 601 ACGTCAATGACCTTGCTCGCCAGCTTACCACTTTGGGCATTACGCTCTCACCGTATAACC 660
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Db 2609 TCAACCAAGAGACTCAAAACAACCTTGCGGACCATCCCAAAATGACAGAGCTCTACCAGT 2668
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Db 2969 TCCGTGCTGTCTTTTAAACTGGAATCATTTCCCTGTGTAAGCATTGTGAAGACA 3028
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Db 3149 TTGGGGCAGTAACATTGAGCCCAAGTGTCCGAGAGCTGCTTCCAATTGCTAATAATAAGC 3208
OY 1441 CAGAGATCGAAGCGGCCCTTCTCTAGACTGAGTGAAGTGAACCCAGTCCATGCTGT 1500
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Db 3209 CAGAGATCGAAGCGGCCCTTCTCTAGACTGAGTGAAGTGAACCCAGTCCATGCTGT 3268
OY 1501 G 1501
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Db 3269 G 3269
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Search completed: March 2, 2005, 07:48:49
Job time : 268.233 secs

GenCore version 5.1.6
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OM nucleic - nucleic search, using BW model

Run on: March 2, 2005, 04:16:40 ; Search time 261.233 Seconds
(without alignments)
9401.765 Million cell updates/sec

Title:	US-09-845-416-6_COPY_2000_3500
Perfect score:	1501
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Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 1202784 seqs, 818138359 residues

Total number of hits satisfying chosen parameters: 2405568

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Minimum DB seq length: 0
Maximum DB seq length: 2000000000
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Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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2: /cgn2_6/prodata/1/ina/5B_COMB.seq:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result	Query		DB		ID	Description
No.	Score	Match	Length			
1	1501	100.0	5952	4	US-09-687-875A-1	Sequence 1, Appli
2	1499.4	99.9	5627	4	US-09-949-016-2831	Sequence 2831, App
3	1499.4	99.9	5627	4	US-09-949-016-2832	Sequence 2832, App
4	1499.4	99.9	7070	4	US-09-949-016-2804	Sequence 2804, App
5	1499.4	99.9	7070	4	US-09-949-016-2805	Sequence 2805, App
6	1499.4	99.9	7070	4	US-09-949-016-2806	Sequence 2806, App
7	1499.4	99.9	7070	4	US-09-949-016-2807	Sequence 2807, App
8	1499.4	99.9	7070	4	US-09-949-016-2808	Sequence 2808, App
9	1499.4	99.9	7070	4	US-09-949-016-2809	Sequence 2809, App
10	1499.4	99.9	7070	4	US-09-949-016-2810	Sequence 2810, App
11	1499.4	99.9	7070	4	US-09-949-016-2811	Sequence 2811, App
12	1499.4	99.9	7109	4	US-09-949-016-2812	Sequence 2812, App
13	1499.4	99.9	7109	4	US-09-949-016-2813	Sequence 2813, App
14	1499.4	99.9	7109	4	US-09-949-016-2814	Sequence 2814, App
15	1499.4	99.9	7109	4	US-09-949-016-2815	Sequence 2815, App
16	1499.4	99.9	7109	4	US-09-949-016-2816	Sequence 2816, App
17	1499.4	99.9	7109	4	US-09-949-016-2817	Sequence 2817, App
18	1499.4	99.9	7109	4	US-09-949-016-2818	Sequence 2818, App
19	1499.4	99.9	7109	4	US-09-949-016-2819	Sequence 2819, App
20	1499.4	99.9	7109	4	US-09-949-016-2820	Sequence 2820, App
21	1499.4	99.9	7141	4	US-09-949-016-2822	Sequence 2822, App
22	1499.4	99.9	7141	4	US-09-949-016-2823	Sequence 2823, App
23	1499.4	99.9	7141	4	US-09-949-016-2824	Sequence 2824, App
24	1499.4	99.9	7141	4	US-09-949-016-2825	Sequence 2825, App
25	1490	99.3	13977	3	US-09-484-970B-60	Sequence 60, Appli
26	1301	86.7	19307	3	US-08-836-022A-10	Sequence 10, Appli
27	1301	86.7	19307	3	US-09-427-048A-10	Sequence 10, Appli

28	603.6	40.2	6045	4	US-09-091-501B-7	Sequence 7, Appli
29	603.6	40.2	10320	4	US-09-091-501B-9	Sequence 9, Appli
30	546.8	36.4	3498	4	US-09-949-016-1359	Sequence 1359, Ap
31	546.8	36.4	3499	4	US-09-949-016-276	Sequence 276, App
32	537.6	35.8	3915	4	US-09-976-594-93	Sequence 93, Appl
33	516	34.4	1571	4	US-09-949-016-2821	Sequence 2821, Ap
34	516	34.4	4556	4	US-09-949-016-2826	Sequence 2826, Ap
35	516	34.4	4556	4	US-09-949-016-2827	Sequence 2827, Ap
36	516	34.4	4556	4	US-09-949-016-2828	Sequence 2828, Ap
37	516	34.4	4556	4	US-09-949-016-2829	Sequence 2829, Ap
38	516	34.4	4556	4	US-09-949-016-2830	Sequence 2830, Ap
39	271.8	18.1	393753	4	US-09-949-016-14573	Sequence 14573, A
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41	271.8	18.1	818128	4	US-09-949-016-14546	Sequence 14546, A
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43	271.8	18.1	818128	4	US-09-949-016-14548	Sequence 14548, A
44	271.8	18.1	818128	4	US-09-949-016-14549	Sequence 14549, A
45	271.8	18.1	818128	4	US-09-949-016-14550	Sequence 14550, A

ALIGNMENTS

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RESULT 1
US-09-687-875A-1
; Sequence 1, Application US/09687875A
; Patent No. 6544786
; GENERAL INFORMATION:
; APPLICANT: Xiao, Xiao
; APPLICANT: Liu, Paul
; TITLE OF INVENTION: METHOD AND VECTOR FOR PRODUCING AND TRANSFERRING TRANS-SPliced PEPTIDES
; FILE REFERENCE: 00792
; CURRENT APPLICATION NUMBER: US/09/687,875A
; CURRENT FILING DATE: 2000-10-13
; PRIOR APPLICATION NUMBER: 60/158,868
; PRIOR FILING DATE: 1999-10-15
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
; LENGTH: 5952
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (2897)..(2898)
; OTHER INFORMATION: S4 junction site
; NAME/KEY: misc feature
; LOCATION: (3198)..(3199)
; OTHER INFORMATION: S2 junction site
US-09-687-875A-1

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Query Match	100.0%;	Score 1501;	DB 4;	Length 5952;
Best Local Similarity	100.0%;	Pred. No. 0;		
Matches 1501; Conservative	0;	Mismatches	0;	Indels 0; Gaps 0;

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QY	61	AAGGTCGATGATGCAGTCCCTGTTACMAAGACGTT	TGGATTAACATGAACCTTCAAGTGA	120
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QY	121	GTGAACCTTGGAAAAAGTCTCTCAACATTAGTCCAT	TTGGAAGCCAGTTCTGACCAGT	180
DB	3254	GTGAACCTTGGAAAAAGTCTCTCAACATTAGTCCAT	TTGGAAGCCAGTTCTGACCAGT	3313
QY	181	GGAAGCGTCTGCACCTTCTCTGCAGGAACCTTCTG	TGTGGCTACAGCTGAAAGATGATG	240
DB	3314	GGAAGCGTCTGCACCTTCTCTGCAGGAACCTTCTG	TGTGGCTACAGCTGAAAGATGATG	3373
QY	241	AATTAAGCCGGCAGGCACCTATTGGAGGCGACTTTC	ACAGATTTCAGGAAGCAGAACGATG	300

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QY 361 AGACTGTACGAATATTTCTGACAGAGCAGCCTTTGGAAGACTAGAGAACTCTACCAGG 420
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QY 421 AGCCGAGAGAGCTGCTCTCTGAGAGAGAGCCCAAGATGTCACTCGGCTTCTACGAAAGC 480
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Db 4214 GGAAGTCCATGAACTCCGAAGACTGCAAGAGGCCCTTTGCTTGGAATCTCTGAGCCTGT 4273
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Db 4334 TCCTGCAGATTAATTAATGTTGACCACTATTATGACCCGCTGGAGCAAGAGCAAA 4393
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QY 1501 A 1501
Db 4634 A 4634

RESULT 2
US-09-949-016-2831
; Sequence 2831, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: C1001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; PRIOR FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2831
; LENGTH: 5627
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-2831

Query Match 99.9%; Score 1499.4; DB 4; Length 5627;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1500; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 CTCACACAGATGTTTATCACAACCTGGATGAAAAACAGCCAAAAATCCTGAGATCCCTGG 60
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QY 61 AAGGTTCCGATGATGCAAGTCTGTTACAAAGACGTTTGGATTAATGAACCTTCAAGTGA 120
Db 174 AAGGTTCCGATGATGCAAGTCTGTTACAAAGACGTTTGGATTAATGAACCTTCAAGTGA 233
QY 121 GTGAAGTTCGGAAGAAAGTCTCTCAACATTAAGTCCCATTTGGAAGCCAGTCTGACCAGT 180
Db 234 GTGAAGTTCGGAAGAAAGTCTCTCAACATTAAGTCCCATTTGGAAGCCAGTCTGACCAGT 293
QY 181 GGAAGCGTCTGCACTTTCTCTGAGGAAGTCTGTTGCTGCTGCTACAGCTGAAAGATGATG 240
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Db 354 AATTAAGCCGGCAGGCAACCTATTGGAAGCGACTTTCACAGACTTCAGAGCAAGACGATG 413
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QY 361 AGACTGTACGAATATTTCTGACAGAGCAGCCTTTGGAAGACTAGAGAACTCTACCAGG 420
Db 474 AGACTGTACGAATATTTCTGACAGAGCAGCCTTTGGAAGACTAGAGAACTCTACCAGG 533
QY 421 AGCCGAGAGAGCTGCTCTCTGAGAGAGAGCCCAAGTGTCACTCGGCTTCTACGAAAGC 480
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Db 534 AGCCAGAGAGCTGCTCTCTGAGAGAGAGCCAGAAATGTCACCTGGCTTCTACGAAAGC 593
QY 481 AGGCTGAGAGAGTCAATACTAGTGGAAAAATTGAACTGCACTCCGCTGACTGGCAGA 540
Db 594 AGGCTGAGAGAGTCAATACTAGTGGAAAAATTGAACTGCACTCCGCTGACTGGCAGA 653
QY 541 GAAAAATAGATGAGACCCCTTGAAGAAGCTCCAGAACTTCAAGAGGCCACGGATGAGCTGG 600
Db 654 GAAAAATAGATGAGACCCCTTGAAGAAGCTCCGCGGAACCTCAAGAGGCCACGGATGAGCTGG 713
QY 601 ACCTCAAGCTGCGCCCAAGCTGAGGTGATCAAGGGAATCCTGGCAGCCCGTGGCGATCTCC 660
Db 714 ACCTCAAGCTGCGCCCAAGCTGAGGTGATCAAGGGAATCCTGGCAGCCCGTGGCGATCTCC 773
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Db 774 TCATTGACTCTCTCCAAGATCACTCGAGAAAGTCAAGGCACCTTCAAGAGAAATTGCGC 833
QY 721 CTCTGAAAGAGACGTGAGCCACGTCATGACCTTGCTGCGCAGCTTACCACTTTGGGCA 780
Db 834 CTCTGAAAGAGACGTGAGCCACGTCATGACCTTGCTGCGCAGCTTACCACTTTGGGCA 893
QY 781 TTCAGCTCTCAACCGTATTAACCTCAGCACTCTGGAAGACCTGAACACAGATGGAAGCTTC 840
Db 894 TTCAGCTCTCAACCGTATTAACCTCAGCACTCTGGAAGACCTGAACACAGATGGAAGCTTC 953
QY 841 TGCAGGTGCGCCCTCGAGGACCGAGTCAAGCTGATGAAGCCCAAGGAACTTTGGTC 900
Db 954 TGCAGGTGCGCCCTCGAGGACCGAGTCAAGCTGATGAAGCCCAAGGAACTTTGGTC 1013
QY 901 CAGCATCTCAGCACTTTCTTCCACGCTGTGTCAGGGTCCCTGGAGAGAGCCATCTCGC 960
Db 1014 CAGCATCTCAGCACTTTCTTCCACGCTGTGTCAGGGTCCCTGGAGAGAGCCATCTCGC 1073
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QY 1081 GGAAGTGCATGAAAATCCGGAAGCTGCAAGAGCCCTTTGCTTGAGTCTTGAGCCTGT 1140
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QY 1441 GATTTTGTGACAGCGCAGGCTGGGCTCTCTTCTGATGATTTATCCAAATTCCAAAGAC 1500
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QY 1501 A 1501
Db 1614 A 1614

RESULT 3
US-09-949-016-2832
; Sequence 2832, Application us/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; PRIOR FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2832
; LENGTH: 5627
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-2832

Query Match 99.9%; Score 1499.4; DB 4; Length 5627;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1500; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 CTCACAGATGTTTATCAACAACCTGATGAAAAAGCCCAAAATCCTGAGATCCCTGG 60
Db 114 CTCACAGATGTTTATCAACAACCTGATGAAAAAGCCCAAAATCCTGAGATCCCTGG 173
QY 61 AAGTTCAGATGATGAGTCCCTGTTACAAAGACGTTTGATTAATGAATCAAGTGA 120
Db 174 AAGTTCAGATGATGAGTCCCTGTTACAAAGACGTTTGATTAATGAATCAAGTGA 233
QY 121 GTGAACCTTGGAAAAAGTCTCTCAACATTAAGTCCCATTTGGAAGCCAGTTCTGACCAGT 180
Db 234 GTGAACCTTGGAAAAAGTCTCTCAACATTAAGTCCCATTTGGAAGCCAGTTCTGACCAGT 293
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Db 294 GGAAGCTGTGCACTTTCTCTGAGAACTTCTGTGTGGCTACAGCTGAAAGATGATG 353
QY 241 AATTAAGCCGCGCAGCACCCTATTGGAGGCGAAGCTTCCAGCAGTTCAAGAGCAGATG 300
Db 354 AATTAAGCCGCGCAGCACCCTATTGGAGGCGAAGCTTCCAGCAGTTCAAGAGCAGATG 413
QY 301 TACATAGGCTTCAAGAGGGAATTGAAAATAAAGAACCTGTATCATGAGTACTCTTG 360
Db 414 TACATAGGCTTCAAGAGGGAATTGAAAATAAAGAACCTGTATCATGAGTACTCTTG 473
QY 361 AGACTGTACGAATATTTCTGACAGACAGCCTTTGGAAGGACTAGAGAAACTCTACAGG 420
Db 474 AGACTGTACGAATATTTCTGACAGACAGCCTTTGGAAGGACTAGAGAAACTCTACAGG 533
QY 421 AGCCCAAGAGCTGCTCTCTGAGGAGAGAGCCAGAAATGTCACTCGCTTCTACGAAAGC 480
Db 534 AGCCCAAGAGCTGCTCTCTGAGGAGAGAGCCAGAAATGTCACTCGCTTCTACGAAAGC 593
QY 481 AGCTGAGAGGTCAATACTGAGTGGGAAAAATTGAACCTGCACTCCGCTGACTGACAG 540
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QY 541 GAAAAATAGATGAGACCCCTTGAAGAAGCTCCAGAACTTCAAGAGGCCACGGATGAGCTGG 600
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QY 601 ACCTCAAGCTGCGCCCAAGCTGAGGTGATCAAGGATCCTGGCAGCCCGTGGCGATCTCC 660

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QY 661 TCATTGACTCTCTCCAGATCACCTCGAGAAAGTCAAGGCACTTCGAGAGAAATTGCGC 720
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QY 1261 ATTTGGTCAAGTCCCTCTCTGCGTGATATGTCTGAAGTGGCTGATGTTATG 1320
Db 1374 ATTTGGTCAAGTCCCTCTCTGCGTGATATGTCTGAAGTGGCTGATGTTATG 1433
QY 1321 ATACGGGACGAACAGGAGGATCCGTCTCTGCTTTTAAACTGGCATCTTCCCTGT 1380
Db 1434 ATACGGGACGAACAGGAGGATCCGTCTCTGCTTTTAAACTGGCATCTTCCCTGT 1493
QY 1381 GTAAAGCATTTGGAAGACAAGTACAGATACCTTTCAAGCAAGTGGCAAGTTCAACAG 1440
Db 1494 GTAAAGCATTTGGAAGACAAGTACAGATACCTTTCAAGCAAGTGGCAAGTTCAACAG 1553
QY 1441 GATTTGTGACGAGCGCAGGCTGGGCTCCTTCTGCATGATTTCAAAATTCGAAGAC 1500
Db 1554 GATTTGTGACGAGCGCAGGCTGGGCTCCTTCTGCATGATTTCAAAATTCGAAGAC 1613
QY 1501 A 1501
Db 1614 A 1614

RESULT 4
US-09-949-016-2804
; Sequence 2804, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016

; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2804
; LENGTH: 7070
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-2804

Query Match 99.9%; Score 1499.4; DB 4; Length 7070;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1500; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 CTCACACAGATGTTTATCACAACCTGGATGAAGAAACAGCCAAATCCTGAGATCCCTGG 60
Db 1628 CTCACACAGATGTTTATCACAACCTGGATGAAGAAACAGCCAAATCCTGAGATCCCTGG 1687
QY 61 AAGTTCGGATGATGACAGTCTGTTCACAAAGCGTTTGGATTAACATGAACCTTCAAGTGA 120
Db 1688 AAGTTCGGATGATGACAGTCTGTTCACAAAGCGTTTGGATTAACATGAACCTTCAAGTGA 1747
QY 121 GTGAACCTTGGAAAAAGTCTCTCAACATTAGGTCCCATTTTGGAAAGCCAGTTCTGACCACT 180
Db 1748 GTGAACCTTGGAAAAAGTCTCTCAACATTAGGTCCCATTTTGGAAAGCCAGTTCTGACCACT 1807
QY 181 GGAAGCTCTGACCTTCTCTGACGAACTTCTGCTGCTACAGCTGAAGAGATGATG 240
Db 1808 GGAAGCTCTGACCTTCTCTGACGAACTTCTGCTGCTACAGCTGAAGAGATGATG 1867
QY 241 AATTAAGCCGGCAGGACACTATTTGAGGCGACTTTCAGCAGTTTCAAGAGCAGACGATG 300
Db 1868 AATTAAGCCGGCAGGACACTATTTGAGGCGACTTTCAGCAGTTTCAAGAGCAGACGATG 1927
QY 301 TACATAGGGCCTTCAAGAGGAATTGAATAAAGAACTGTATCATGATCTCTTG 360
Db 1928 TACATAGGGCCTTCAAGAGGAATTGAATAAAGAACTGTATCATGATCTCTTG 1987
QY 361 AGACTGTACGAATATTTCTGACACAGACAGCCCTTTGGAAGGACTAGAGAACTTACCAAG 420
Db 1988 AGACTGTACGAATATTTCTGACACAGACAGCCCTTTGGAAGGACTAGAGAACTTACCAAG 2047
QY 421 AGCCCAAGAGAGTGCCTCTCTGAGGAGAGAGAGCCCAAGATGTCACTCGGCTTCTACGAAAGC 480
Db 2048 AGCCCAAGAGAGTGCCTCTCTGAGGAGAGAGAGCCCAAGATGTCACTCGGCTTCTACGAAAGC 2107
QY 481 AGCTGAGGAGGTCAATACTGAGTGGGAAAAATTGAACCTGCACCTCGCTGAGCTGACAGA 540
Db 2108 AGCTGAGGAGGTCAATACTGAGTGGGAAAAATTGAACCTGCACCTCGCTGAGCTGACAGA 2167
QY 541 GAAAAATAGATGAGACCTTGAAGAGCTCCAGGAATTCAAGAGGCGACGATGAGCTGG 600
Db 2168 GAAAAATAGATGAGACCTTGAAGAGCTCCAGGAATTCAAGAGGCGACGATGAGCTGG 2227
QY 601 ACCTCAAGCTGCGCAAGCTGAGGTGATCAAGGATCCTGGCAGCCCGTGGCGATCTCC 660
Db 2228 ACCTCAAGCTGCGCAAGCTGAGGTGATCAAGGATCCTGGCAGCCCGTGGCGATCTCC 2287
QY 661 TCATTGACTCTCTCCAGATCACTCTGAGAAAGTCAAGGCACTTCGAGGAGAAATTGCGC 720
Db 2288 TCATTGACTCTCTCCAGATCACTCTGAGAAAGTCAAGGCACTTCGAGGAGAAATTGCGC 2347
QY 721 CTCTGAAAGAGAACGTGAGCCACGTCAATGACCTTGCTGCGCAGCTTACACTTTGGGCA 780
Db 2348 CTCTGAAAGAGAACGTGAGCCACGTCAATGACCTTGCTGCGCAGCTTACACTTTGGGCA 2407
QY 781 TTCAGCTCTCAGCGTATTAACCTGAGCACTCTGGAAGACCTGAACACAGATGGAAGCTTC 840

Db 2408 TTCAGCTCTCACCGTATTAACCTCAGCAGCTTGGAAGACCTGAACACCAACGATGGAAGCTTC 2467
QY 841 TGCAGGTGGCCGTGAGGAGCCGAGTCAGGAGCTGCATGAAGCCACAGGACTTTGGTC 900
Db 2468 TGCAGGTGGCCGTGAGGAGCCGAGTCAGGAGCTGCATGAAGCCACAGGACTTTGGTC 2527
QY 901 CAGCATCTCAGCACTTTCTTCCACGCTGTGTCAGGGTCCCTGGAGAGAGCCATCTCGC 960
Db 2528 CAGCATCTCAGCACTTTCTTCCACGCTGTGTCAGGGTCCCTGGAGAGAGCCATCTCGC 2587
QY 961 CAACAAGTGCCTTACTATATCAACCAAGACTCAACCACTTGTGGAGCCATCCCA 1020
Db 2588 CAACAAGTGCCTTACTATATCAACCAAGACTCAACCACTTGTGGAGCCATCCCA 2647
QY 1021 AATGACAGAGCTCTACCAAGCTTTAGCTGACCTGAATATGTCAAGATTCTAGCTTATA 1080
Db 2648 AATGACAGAGCTCTACCAAGCTTTAGCTGACCTGAATATGTCAAGATTCTAGCTTATA 2707
QY 1081 GGAAGCTGCAAGAACTCCGAAGACTGCAAGAGCCCTTGTGATCTTGAAGCTGT 1140
Db 2708 GGAAGCTGCAAGAACTCCGAAGACTGCAAGAGCCCTTGTGATCTTGAAGCTGT 2767
QY 1141 CAGCTGATGATGCTTGTGACCAAGCACTCAAGCAAAATGACCAAGCCATGATA 1200
Db 2768 CAGCTGATGATGCTTGTGACCAAGCACTCAAGCAAAATGACCAAGCCATGATA 2827
QY 1201 TCCTGACAGTATTAATTGTTGACCACTATTATGACCGCCTGAGCAAGACACACA 1260
Db 2828 TCCTGACAGTATTAATTGTTGACCACTATTATGACCGCCTGAGCAAGACACACA 2887
QY 1261 ATTTGCTCAAGCTCCCTCTCTGCGTGATATGTCTGAAGCTGCTGCTGAATGTTATG 1320
Db 2888 ATTTGCTCAAGCTCCCTCTCTGCGTGATATGTCTGAAGCTGCTGCTGAATGTTATG 2947
QY 1321 ATACGGGACGAACAGGAGGATCCGCTGCTGCTTTTAAACTGGCATTTCCCTGT 1380
Db 2948 ATACGGGACGAACAGGAGGATCCGCTGCTGCTTTTAAACTGGCATTTCCCTGT 3007
QY 1381 GTAAAGCACTTTGGAAGACAGATACAGATACCTTTCAAGCAAGTGGCAAGTTCAACAG 1440
Db 3008 GTAAAGCACTTTGGAAGACAGATACAGATACCTTTCAAGCAAGTGGCAAGTTCAACAG 3067
QY 1441 GATTTGTGACCAAGGAGGCTGGGCTCTCTGATGATTTCAAAATTCGAAGAC 1500
Db 3068 GATTTGTGACCAAGGAGGCTGGGCTCTCTGATGATTTCAAAATTCGAAGAC 3127
QY 1501 A 1501
Db 3128 A 3128

RESULT 5
US-09-949-016-2805
; Sequence 2805, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; PRIOR FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2805
; LENGTH: 7070
; TYPE: DNA

; ORGANISM: Human
US-09-949-016-2805
Query Match 99.9%; Score 1499.4; DB 4; Length 7070;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1500; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1 CTCACACAGATGTTTATCACAACCTGGATGAAAACAGCCAAAATCCTGAGATCCCTGG 60
Db 1628 CTCACACAGATGTTTATCACAACCTGGATGAAAACAGCCAAAATCCTGAGATCCCTGG 1687
QY 61 AAGGTTCCGATGATGAGTCCCTGTTACAAAGACGTTTGATTAACATGAACCTCAAGTGA 120
Db 1688 AAGGTTCCGATGATGAGTCCCTGTTACAAAGACGTTTGATTAACATGAACCTCAAGTGA 1747
QY 121 GTGAAGCTTGGAAAAAGTCTCTCAACATTAAGTCCCATTTGGAAGCCAGTTCTGACAGT 180
Db 1748 GTGAAGCTTGGAAAAAGTCTCTCAACATTAAGTCCCATTTGGAAGCCAGTTCTGACAGT 1807
QY 181 GGAAGCTGTCACCTTCTCTGACAGAACTTCTGTGTGCTAAGCTGAAGATGATG 240
Db 1808 GGAAGCTGTCACCTTCTCTGACAGAACTTCTGTGTGCTAAGCTGAAGATGATG 1867
QY 241 AATTAAGCCGGCAGGACCACTATTGAGGCGCACTTTCAGCAGTTCAAGAACAGACGATG 300
Db 1868 AATTAAGCCGGCAGGACCACTATTGAGGCGCACTTTCAGCAGTTCAAGAACAGACGATG 1927
QY 301 TACATAGGCTTCAAGAGGGAATTGAAACTAAAGAACCTGTAAATCATGACTCTTG 360
Db 1928 TACATAGGCTTCAAGAGGGAATTGAAACTAAAGAACCTGTAAATCATGACTCTTG 1987
QY 361 AGACTGTACGAATATTTCTGACAGACAGCCTTTGGAAGACTGAGAAAATCTACAGAG 420
Db 1988 AGACTGTACGAATATTTCTGACAGACAGCCTTTGGAAGACTGAGAAAATCTACAGAG 2047
QY 421 AGCCCAAGAGCTGCTCTGAGAGAGAGCCCAAGATGTCACTCGCTTCTACGAAAGC 480
Db 2048 AGCCCAAGAGCTGCTCTGAGAGAGAGCCCAAGATGTCACTCGCTTCTACGAAAGC 2107
QY 481 AGCTGAGAGGTCAATATCTGAGTGGAAAAATTGAACCTGCACTCCGCTGACTGGCAGA 540
Db 2108 AGCTGAGAGGTCAATATCTGAGTGGAAAAATTGAACCTGCACTCCGCTGACTGGCAGA 2167
QY 541 GAAAAATAGATGAGACCCCTTGAAGACTCCAGAACTTCAAGAGGCCACGGATGAGCTGG 600
Db 2168 GAAAAATAGATGAGACCCCTTGAAGACTCCGGAACCTTCAAGAGGCCACGGATGAGCTGG 2227
QY 601 ACCTCAAGCTGCGCCCAAGCTGAGGTGATCAAGGGATCCTGGCAGCCCGTGGCGATCTCC 660
Db 2228 ACCTCAAGCTGCGCCCAAGCTGAGGTGATCAAGGGATCCTGGCAGCCCGTGGCGATCTCC 2287
QY 661 TCATGACTCTCTCCAAGATCACTCGAAGAAAGTCAAGGCACTTCGAGGAGAAATTGGCG 720
Db 2288 TCATGACTCTCTCCAAGATCACTCGAAGAAAGTCAAGGCACTTCGAGGAGAAATTGGCG 2347
QY 721 CTCTGAAGAGAAAGCTGAGGCCACGTCATATGACCTTGTCTGCGCCAGCTTACCACTTTGGCA 780
Db 2348 CTCTGAAGAGAAAGCTGAGGCCACGTCATATGACCTTGTCTGCGCCAGCTTACCACTTTGGCA 2407
QY 781 TTGAGCTCTCAACCGTATTAACCTCAGCACTTGGAAGACCTGAACACCAAGATGGAAGCTTC 840
Db 2408 TTGAGCTCTCAACCGTATTAACCTCAGCACTTGGAAGACCTGAACACCAAGATGGAAGCTTC 2467
QY 841 TGCAGGTGGCCGTGAGGAGCCGATCAGGAGCTGCATGAAGCCCAAGGACTTTGGTC 900
Db 2468 TGCAGGTGGCCGTGAGGAGCCGATCAGGAGCTGCATGAAGCCCAAGGACTTTGGTC 2527
QY 901 CAGCATCTCAGCACTTTCTTCCACGCTGTGTCAGGGTCCCTGGAGAGAGCCATCTCGC 960
Db 2528 CAGCATCTCAGCACTTTCTTCCACGCTGTGTCAGGGTCCCTGGAGAGAGCCATCTCGC 2587
QY 961 CAACAAGTGCCTTACTATATCAACCAAGACTCAAAACTTGTGTTGGAGCATCCCA 1020

Db 2588 CAAACAAGTCCCTACTATATCAACCAAGACTCAACAACCTTGCGGACCATCCCA 2647
QY 1021 AAATGACAGAGCTCTACCAGTCTTTAGCTGACCTGAAATAATGTAGATTTCAGCTTATA 1080
Db 2648 AAATGACAGAGCTCTACCAGTCTTTAGCTGACCTGAAATAATGTAGATTTCAGCTTATA 2707
QY 1081 GGAAGTCCATGAAACTCCGAAAGACTGCAAGAGGCCCTTGCTTGATCTCTGAGCCTGT 1140
Db 2708 GGAAGTCCATGAAACTCCGAAAGACTGCAAGAGGCCCTTGCTTGATCTCTGAGCCTGT 2767
QY 1141 CAGCTGATGTGATGCTGCTTGGAACGACACAACCTCAAGCAAAATGACAGCCCATGATA 1200
Db 2768 CAGCTGATGTGATGCTGCTTGGAACGACACAACCTCAAGCAAAATGACAGCCCATGATA 2827
QY 1201 TCCTGCAGATTATTAATTGTTTGACCACTAATTATGACCGCTGGAGCAAGACACAACA 1260
Db 2828 TCCTGCAGATTATTAATTGTTTGACCACTAATTATGACCGCTGGAGCAAGACACAACA 2887
QY 1261 ATTTGTCACGCTCCCTCTCTGCGTGATATGTGTGAACTGGCTGCTGAATGTTATG 1320
Db 2888 ATTTGTCACGCTCCCTCTCTGCGTGATATGTGTGAACTGGCTGCTGAATGTTATG 2947
QY 1321 ATACGGAGCGAACAAGGAGGATCCGTGCTGTCTTTTAAACCTGGCATCTTCCCTGT 1380
Db 2948 ATACGGAGCGAACAAGGAGGATCCGTGCTGTCTTTTAAACCTGGCATCTTCCCTGT 3007
QY 1381 GTAAAGCACATTTGGAAGACAAGTACAGATACCTTTTCAAGCAAGTGCGCAAGTTCAACAG 1440
Db 3008 GTAAAGCACATTTGGAAGACAAGTACAGATACCTTTTCAAGCAAGTGCGCAAGTTCAACAG 3067
QY 1441 GATTTTGACACGCGCAGCGCTGCGCTCTCTGTCATGATTCTATCCAAATTCGAAGAC 1500
Db 3068 GATTTTGACACGCGCAGCGCTGCGCTCTCTGTCATGATTCTATCCAAATTCGAAGAC 3127
QY 1501 A 1501
Db 3128 A 3128

RESULT 6

US-09-949-016-2806
; Sequence 2806, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2806
; LENGTH: 7070
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-2806

Query Match 99.9%; Score 1499.4; DB 4; Length 7070;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1500; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 CTCACACAGATGTTTATCACAACCTGATGAAACAGCCAAAATCTGAGATCCCTGG 60
Db 1628 CTCACACAGATGTTTATCACAACCTGATGAAACAGCCAAAATCTGAGATCCCTGG 1687
QY 61 AAGGTTCCGATGATGCACTCTGTATACAAAGACGTTTGATACATGAACCTCAAGTGA 120

Db 1688 AAGGTTCCGATGATGCACTCTGTATACAAAGACGTTTGATACATGAACCTCAAGTGA 1747
QY 121 GTGAAGCTCGGAAAAAGTCTCTCAACATTAAGTCCCATTTGGAAGCCAGTTCTGACCACT 180
Db 1748 GTGAAGCTCGGAAAAAGTCTCTCAACATTAAGTCCCATTTGGAAGCCAGTTCTGACCACT 1807
QY 181 GGAAGCTCTGCACTTCTCTGCAAGAACTTCTGTGTGGCTACAGCTGAAAGATGATG 240
Db 1808 GGAAGCTCTGCACTTCTCTGCAAGAACTTCTGTGTGGCTACAGCTGAAAGATGATG 1867
QY 241 AATTAAAGCCGCAAGCACCCTATTGAGCGGACTTTCCAGAGTTCAAGAGCAGAACGATG 300
Db 1868 AATTAAAGCCGCAAGCACCCTATTGAGCGGACTTTCCAGAGTTCAAGAGCAGAACGATG 1927
QY 301 TACATAGGCTTCAAGAGGGAATTGAAACTAAGAACCTGTATCATGATGATCTCTG 360
Db 1928 TACATAGGCTTCAAGAGGGAATTGAAACTAAGAACCTGTATCATGATGATCTCTG 1987
QY 361 AGACTGTACGAATATTTCTGACAGAGCAGCCTTTGGAAGGACTAGAGAACTCTACCAAG 420
Db 1988 AGACTGTACGAATATTTCTGACAGAGCAGCCTTTGGAAGGACTAGAGAACTCTACCAAG 2047
QY 421 AGCCAGAGAGCTGCTCCTGAGAGAGAGAGCCCAAGATGCTACTCGGCTTCTACGAAAGC 480
Db 2048 AGCCAGAGAGCTGCTCCTGAGAGAGAGAGCCCAAGATGCTACTCGGCTTCTACGAAAGC 2107
QY 481 AGGCTGAGAGAGTCAATTACTGAGTGGGAAATTTGAACCTGCATCTCGCTGACTGGCAGA 540
Db 2108 AGGCTGAGAGAGTCAATTACTGAGTGGGAAATTTGAACCTGCATCTCGCTGACTGGCAGA 2167
QY 541 GAAAAATAGATGAGACCCCTTGAAAGACTCCAGGAACCTTCAAGAGGCCACGATGAGCTGG 600
Db 2168 GAAAAATAGATGAGACCCCTTGAAAGACTCCGGAACCTTCAAGAGGCCACGATGAGCTGG 2227
QY 601 ACCTCAAGCTGCGCCCAAGCTGAGGTGATCAAGGATCTGGCAGCCGCTGGCGATCTCC 660
Db 2228 ACCTCAAGCTGCGCCCAAGCTGAGGTGATCAAGGATCTGGCAGCCGCTGGCGATCTCC 2287
QY 661 TCATTGACTCTCTCCAAGATCACTTCGAGAAAGTCAAGGCACTTGAGAGAAATTGCCG 720
Db 2288 TCATTGACTCTCTCCAAGATCACTTCGAGAAAGTCAAGGCACTTGAGAGAAATTGCCG 2347
QY 721 CTCTGAAGAGAACGCTGAGGCCAGCTCAATGACCTTGCTGCGCAGCTTACCACTTTGGGCA 780
Db 2348 CTCTGAAGAGAACGCTGAGGCCAGCTCAATGACCTTGCTGCGCAGCTTACCACTTTGGGCA 2407
QY 781 TTCAGCTCTCACCGTATTAACCTCAGCACTTGGAAGACCTGGAACCAAGATGAAGCTTC 840
Db 2408 TTCAGCTCTCACCGTATTAACCTCAGCACTTGGAAGACCTGGAACCAAGATGAAGCTTC 2467
QY 841 TGCAGGTGGCCGTGAGAGACCGAGTCAGGCTGATGAAGCCCAAGGACTTTGGTC 900
Db 2468 TGCAGGTGGCCGTGAGAGACCGAGTCAGGCTGATGAAGCCCAAGGACTTTGGTC 2527
QY 901 CAGCATCTCAGCACTTTCTTCCACGCTGTGCCAGGGTCCCTGGAGAGAGCCATCTCCG 960
Db 2528 CAGCATCTCAGCACTTTCTTCCACGCTGTGCCAGGGTCCCTGGAGAGAGCCATCTCCG 2587
QY 961 CAACAAGTGCCTACTATATCAACCAAGAGACTCAACAACCTGCTGGAGCCATCCCA 1020
Db 2588 CAACAAGTGCCTACTATATCAACCAAGAGACTCAACAACCTGCTGGAGCCATCCCA 2647
QY 1021 AAATGACAGAGCTCTACAGTCTTTAGCTGACCTGAATATGTCAAGTTCTCAGCTTATA 1080
Db 2648 AAATGACAGAGCTCTACAGTCTTTAGCTGACCTGAATATGTCAAGTTCTCAGCTTATA 2707
QY 1081 GGAAGTCCATGAAACTCCGAAAGACTGCAAGAGGCCCTTGCTTGATCTCTGAGCCTGT 1140
Db 2708 GGAAGTCCATGAAACTCCGAAAGACTGCAAGAGGCCCTTGCTTGATCTCTGAGCCTGT 2767
QY 1141 CAGCTGATGTGATGCTTGGACCAAGCAACCTTCAAGAAATGACAGCCCATGATA 1200

Db 2768 CAGCTGCATGTGATGCCTTGGACCAGCAACAACCTCAAGCAAAATGACCACCCATGATA 2827
QY 1201 TCCTGCAGATTATTAATGTTTGACCACTAATTATGACCGCCTGGACAAGACACAACA 1260
Db 2828 TCCTGCAGATTATTAATGTTTGACCACTAATTATGACCGCCTGGACAAGACACAACA 2887
QY 1261 ATTTGGTCAACGTCCCTCTCTGCGTGAATGTGTCTGAACTGCGCTGTAATGTTATG 1320
Db 2888 ATTTGGTCAACGTCCCTCTCTGCGTGAATGTGTCTGAACTGCGCTGTAATGTTATG 2947
QY 1321 ATACGGAGCAACAGAGGAGATCCGTGTCTGTCTTTTAAACTGGCATTTCCCTGT 1380
Db 2948 ATACGGAGCAACAGAGGAGATCCGTGTCTGTCTTTTAAACTGGCATTTCCCTGT 3007
QY 1381 GTAAAGCACATTTGGAAAGACAAGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCAACAG 1440
Db 3008 GTAAAGCACATTTGGAAAGACAAGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCAACAG 3067
QY 1441 GATTTGTGACCAAGCGCAGGCTGGGCTCTCTTCTGCATGATTCTATCCAAATTCGAAGAC 1500
Db 3068 GATTTGTGACCAAGCGCAGGCTGGGCTCTCTTCTGCATGATTCTATCCAAATTCGAAGAC 3127
QY 1501 A 1501
Db 3128 A 3128

RESULT 7
US-09-949-016-2807
; Sequence 2807, Application us/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949, 016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241, 755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237, 768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231, 498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2807
; LENGTH: 7070
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-2807

Query Match 99.9%; Score 1499.4; DB 4; Length 7070;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1500; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1 CTCACACAGATGTTTATCACAACCTGATGAAAAACAGCCAAAAAATCTGAGATCCCTGG 60
Db 1628 CTCACACAGATGTTTATCACAACCTGATGAAAAACAGCCAAAAAATCTGAGATCCCTGG 1687
QY 61 AAGGTTCCGATGATGACAGTCCGTGTACAAAGACGTTTGATTAACATGAATTCAAGTGA 120
Db 1688 AAGGTTCCGATGATGACAGTCCGTGTGTACAAAGACGTTTGATTAACATGAATTCAAGTGA 1747
QY 121 GTGAACCTTGGAAAAAGTCTCTCAACATTAAGTCCCATTTGGAAAGCCAGTTCTGACCAGT 180
Db 1748 GTGAACCTTGGAAAAAGTCTCTCAACATTAAGTCCCATTTGGAAAGCCAGTTCTGACCAGT 1807
QY 181 GGAAGCGTCTGACCTTTCTCTGACGAACCTTGTGTGCTACAGCTGAAGATGATG 240
Db 1808 GGAAGCGTCTGACCTTTCTCTGACGAACCTTGTGTGCTACAGCTGAAGATGATG 1867
QY 241 AATTAAAGCGGACAGGACCTATTGAGGCGAATTTCACAGAGTTCAAGACGAAGCATG 300

Db 1868 AATTAAAGCGGACAGGACCACTATTGGAGCGACTTTCACAGAGTTCAAGACGAAGCATG 1927
QY 301 TACATAGGCGCTTCAAGAGGGAATTGAAAATAAAGAACCTGTATCATGACTACTTGTG 360
Db 1928 TACATAGGCGCTTCAAGAGGGAATTGAAAATAAAGAACCTGTATCATGACTACTTGTG 1987
QY 361 AGACTGTACGAATATTTCTGACAGAGCAGCCTTTGGAAAGACTTAGAATACTTACCAGG 420
Db 1988 AGACTGTACGAATATTTCTGACAGAGCAGCCTTTGGAAAGACTTAGAATACTTACCAGG 2047
QY 421 AGCCCAAGAGCTGCTCTCTGAGAGAGAGCCCAAGATGTCACTGCGCTTCTACGAAGC 480
Db 2048 AGCCCAAGAGCTGCTCTCTGAGAGAGAGCCCAAGATGTCACTGCGCTTCTACGAAGC 2107
QY 481 AGCTGAGAGGTCAATACTGAGTGGAAAAATTGAACCTGCACTCCGCTGACTGCGAGA 540
Db 2108 AGCTGAGAGGTCAATACTGAGTGGAAAAATTGAACCTGCACTCCGCTGACTGCGAGA 2167
QY 541 GAAAAATAGATGAGACCCCTTGAAGAAGCTCCAGGAACCTTCAAGAGGCCACGGATGAGCTGG 600
Db 2168 GAAAAATAGATGAGACCCCTTGAAGAAGCTCCGGAACCTTCAAGAGGCCACGGATGAGCTGG 2227
QY 601 ACCTCAAGCTGCGCCCAAGCTGAGGTGATCAAGGGATCCTGGCAGCCCGTGGCGATCTCC 660
Db 2228 ACCTCAAGCTGCGCCCAAGCTGAGGTGATCAAGGGATCCTGGCAGCCCGTGGCGATCTCC 2287
QY 661 TCATTGACTCTCTCCAAGATCACCTGAGAAAAAGTCAAGGCACCTTGAAGAGAAATTGCCG 720
Db 2288 TCATTGACTCTCTCCAAGATCACCTGAGAAAAAGTCAAGGCACCTTGAAGAGAAATTGCCG 2347
QY 721 CTCTGAAGAGAACGTGAGCCACGTCAATGACCTTGCTGCGCCAGCTTACCACTTTGGCA 780
Db 2348 CTCTGAAGAGAACGTGAGCCACGTCAATGACCTTGCTGCGCCAGCTTACCACTTTGGCA 2407
QY 781 TTCAGCTCTCACCGGTATTAACCTCAGCACTTGAAGAAGCTGAACCAAGATGAAGCTTC 840
Db 2408 TTCAGCTCTCACCGGTATTAACCTCAGCACTTGAAGAAGCTGAACCAAGATGAAGCTTC 2467
QY 841 TGCAGGTGCGCGTGCAGGACCGAGTCAAGGACGCTGCATGAAGCCACAGGACTTTGCTC 900
Db 2468 TGCAGGTGCGCGTGCAGGACCGAGTCAAGGACGCTGCATGAAGCCACAGGACTTTGCTC 2527
QY 901 CAGCATCTCAGCACTTCTTTCCAGCTGTCTCCAGGGTCCCTGGAGAGAGAGCCATCTCGC 960
Db 2528 CAGCATCTCAGCACTTCTTTCCAGCTGTCTCCAGGGTCCCTGGAGAGAGAGCCATCTCGC 2587
QY 961 CAAACAAAGTGCCCTACTATATATCAACCAAGAGACTCAAAACAATTGCTGGAGCATCCCA 1020
Db 2588 CAAACAAAGTGCCCTACTATATATCAACCAAGAGACTCAAAACAATTGCTGGAGCATCCCA 2647
QY 1021 AAATGACAGAGCTCTACAGTCTTTAGCTGACCTGAATAATGTCAGATTCTCAGCTTATA 1080
Db 2648 AAATGACAGAGCTCTACAGTCTTTAGCTGACCTGAATAATGTCAGATTCTCAGCTTATA 2707
QY 1081 GGACTGCCATGAAGTCCGAAAGCTGCAAGAGGCCCTTTGCTTGGATCTCTGAGCCTGT 1140
Db 2708 GGACTGCCATGAAGTCCGAAAGCTGCAAGAGGCCCTTTGCTTGGATCTCTGAGCCTGT 2767
QY 1141 CAGCTGATGTGATGCTTGGACCAACAACCTCAAGCAAAAATGACCAAGCCCATGGATA 1200
Db 2768 CAGCTGATGTGATGCTTGGACCAACAACCTCAAGCAAAAATGACCAAGCCCATGGATA 2827
QY 1201 TCCTGCAGATTATTAATGTTTGACCACTATTATGACCGCCTGGACAAGACACAACA 1260
Db 2828 TCCTGCAGATTATTAATGTTTGACCACTATTATGACCGCCTGGACAAGACACAACA 2887
QY 1261 ATTTGTCACAGTCCCTCTCTGCGTGAATATGTGTCTGAACCTGCTGTAATGTTATG 1320
Db 2888 ATTTGTCACAGTCCCTCTCTGCGTGAATATGTGTCTGAACCTGCTGTAATGTTATG 2947
QY 1321 ATACGGAGCAACAGGAGGATCCGTGTCTGCTTTTAAACTGGCATCATTTCCCTGT 1380

Db 2948 ATACGGGACGAACAGGAGATCCGTGTCCTGCTCTTTTAAAACTGCGATCATTTCCCTGT 3007
QY 1381 GTAAAGCACATTGGGAAGACAGATACCTTTTCAAGCAGTGGCAAGTTCAACAG 1440
Db 3008 GTAAAGCACATTGGGAAGACAGATACCTTTTCAAGCAGTGGCAAGTTCAACAG 3067
QY 1441 GATTTGTGACCAAGCGCAGGCTGGGCTCTTCTGATGATTTCTCAATTCGAAGC 1500
Db 3068 GATTTGTGACCAAGCGCAGGCTGGGCTCTTCTGATGATTTCTCAATTCGAAGC 3127
QY 1501 A 1501
Db 3128 A 3128

RESULT 8

US-09-949-016-2808
; Sequence 2808, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2808
; LENGTH: 7070
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-2808

Query Match 99.9%; Score 1499.4; DB 4; Length 7070;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1500; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 CTCACACAGATGTTTATCAAAACCTGATGAAAAACAGCCAAAAATCCTGATCCCTGG 60
Db 1628 CTCACACAGATGTTTATCAAAACCTGATGAAAAACAGCCAAAAATCCTGATCCCTGG 1687
QY 61 AAGGTTCCGATGATGACGCTCTGTTACAAAGCGTTTGATACATGAACCTCAAGTGA 120
Db 1688 AAGGTTCCGATGATGACGCTCTGTTACAAAGCGTTTGATACATGAACCTCAAGTGA 1747
QY 121 GTGAACCTTCGAAAAAGTCTCTCAACATTAAGTCCCATTTGGAAAGCCAGTCTGACAGT 180
Db 1748 GTGAACCTTCGAAAAAGTCTCTCAACATTAAGTCCCATTTGGAAAGCCAGTCTGACAGT 1807
QY 181 GGAAGCGTCTGACCTTTCTCTGACGAACTTCTGTGTGGCTACAGCTGAAGATGATG 240
Db 1808 GGAAGCGTCTGACCTTTCTCTGACGAACTTCTGTGTGGCTACAGCTGAAGATGATG 1867
QY 241 AATTAAAGCCGACAGGACCTATTGAGCGCACTTTCAGAGTTCAAGACGAAAGATG 300
Db 1868 AATTAAAGCCGACAGGACCTATTGAGCGCACTTTCAGAGTTCAAGACGAAAGATG 1927
QY 301 TACATAGGGCCTTCAAGAGGGAATTGAAAACTAAGAACTGTATCATGATGATCTTGG 360
Db 1928 TACATAGGGCCTTCAAGAGGGAATTGAAAACTAAGAACTGTATCATGATGATCTTGG 1987
QY 361 AGACTGTACGAATATTTCTGACAGAGCAGCCTTTGGAAGACTAGAGAACTCAACAGG 420
Db 1988 AGACTGTACGAATATTTCTGACAGAGCAGCCTTTGGAAGACTAGAGAACTCAACAGG 2047
QY 421 AGCCCAAGAGAGCTGCTCTCTGAGGAGAGAGCCCAAGATGTCACTCGGCTTCAAGAAAGC 480

Db 2048 AGCCCAAGAGAGCTGCTCTCTGAGGAGAGAGCCCAAGATGTCACTCGGCTTCAAGAAAGC 2107
QY 481 AGGCTGAGGAGGTCAATACTGAGTGGGAAAAATTGAACCTGCACTCCGCTGACTGGCAGA 540
Db 2108 AGGCTGAGGAGGTCAATACTGAGTGGGAAAAATTGAACCTGCACTCCGCTGACTGGCAGA 2167
QY 541 GAAAAATAGATGAGACCCCTTGAAGAAGCTCCAGAACTTCAAGAGGCCACGATGAGCTGG 600
Db 2168 GAAAAATAGATGAGACCCCTTGAAGAAGCTCCGGAACCTTCAAGAGGCCACGATGAGCTGG 2227
QY 601 ACCTCAAGCTGCGCCCAAGCTGAGGTGATCAAGGATCTGGCAGCCCGTGGCGATCTCC 660
Db 2228 ACCTCAAGCTGCGCCCAAGCTGAGGTGATCAAGGATCTGGCAGCCCGTGGCGATCTCC 2287
QY 661 TCATTGACTCTCTCCAAGATCACTCGAAGAAAGTCAAGGCACTTCGAGAGAAATTGCGC 720
Db 2288 TCATTGACTCTCTCCAAGATCACTCGAAGAAAGTCAAGGCACTTCGAGAGAAATTGCGC 2347
QY 721 CTCTGAAGAGAACGTGAGCCACGTCAATGACCTTGCTCGCCAGCTTACCACTTTGGGCA 780
Db 2348 CTCTGAAGAGAACGTGAGCCACGTCAATGACCTTGCTCGCCAGCTTACCACTTTGGGCA 2407
QY 781 TTCAGCTCTCAACGATATTAACCTCAGCACTCTGGAAGACCTGAACACCAAGATGAAAGCTTC 840
Db 2408 TTCAGCTCTCAACGATATTAACCTCAGCACTCTGGAAGACCTGAACACCAAGATGAAAGCTTC 2467
QY 841 TGCAGGTGGCCGTGAGGACCGAGTCAAGCAGCTGCAATGAAGCCCAAGGCACTTTGGTC 900
Db 2468 TGCAGGTGGCCGTGAGGACCGAGTCAAGCAGCTGCAATGAAGCCCAAGGCACTTTGGTC 2527
QY 901 CAGCATCTCAGCACTTTCTTCCACGTCTGTCCAGGGTCCCTGGAGAGGCCATCTCGC 960
Db 2528 CAGCATCTCAGCACTTTCTTCCACGTCTGTCCAGGGTCCCTGGAGAGGCCATCTCGC 2587
QY 961 CAAACAAAGTGCCCTACTATATCAACCAAGAGCTCAAAACAATTGCTGGGACCATCCCA 1020
Db 2588 CAAACAAAGTGCCCTACTATATCAACCAAGAGCTCAAAACAATTGCTGGGACCATCCCA 2647
QY 1021 AAATGACAGAGCTTTACCAAGTCTTTAGCTGACCTGAATATGTGAGTTCTCAGCTTATA 1080
Db 2648 AAATGACAGAGCTTTACCAAGTCTTTAGCTGACCTGAATATGTGAGTTCTCAGCTTATA 2707
QY 1081 GGACTGCCATGAACTCCGAAGCTGCAAGAGGCCCTTTGCTTGGATCTCTTGAGCCTGT 1140
Db 2708 GGACTGCCATGAACTCCGAAGCTGCAAGAGGCCCTTTGCTTGGATCTCTTGAGCCTGT 2767
QY 1141 CAGCTGCATGTATGCTTGGACCAAGCAAACTCAAGCAAAATGACCAAGCCCATGATA 1200
Db 2768 CAGCTGCATGTATGCTTGGACCAAGCAAACTCAAGCAAAATGACCAAGCCCATGATA 2827
QY 1201 TCCTGACAGATTATTAATTGTTGACCACTATTATGACCGCGCTGGAAGCAAGACACA 1260
Db 2828 TCCTGACAGATTATTAATTGTTGACCACTATTATGACCGCGCTGGAAGCAAGACACA 2887
QY 1261 ATTTGGTCAACGTCCCTCTCTGCGTGAATATGTGTGAACCTGCTGTAATGTTTATG 1320
Db 2888 ATTTGGTCAACGTCCCTCTCTGCGTGAATATGTGTGAACCTGCTGTAATGTTTATG 2947
QY 1321 ATACGGGACGAACAGGAGATCCGTGTCCTGTCTTTTAAAACTGGCATCATTTCCCTGT 1380
Db 2948 ATACGGGACGAACAGGAGATCCGTGTCCTGTCTTTTAAAACTGGCATCATTTCCCTGT 3007
QY 1381 GTAAAGCACATTGGGAAGACAGATACCTTTTCAAGCAAGTGCGCAAGTTCAACAG 1440
Db 3008 GTAAAGCACATTGGGAAGACAGATACCTTTTCAAGCAAGTGCGCAAGTTCAACAG 3067
QY 1441 GATTTGTGACCAAGCGCAGGCTGGGCTCTCTTCTGCAATGATTTCTATCCAAATTTCCAAAGC 1500
Db 3068 GATTTGTGACCAAGCGCAGGCTGGGCTCTCTTCTGCAATGATTTCTATCCAAATTTCCAAAGC 3127
QY 1501 A 1501

Db 3128 A 3128

RESULT 9

US-09-949-016-2809

; Sequence 2809, Application US/09949016

; Patent No. 6812339

; GENERAL INFORMATION:

; APPLICANT: VENTER, J. Craig et al.

; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED

; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF

; FILE REFERENCE: CL001307

; CURRENT APPLICATION NUMBER: US/09/949,016

; PRIOR APPLICATION NUMBER: 60/241,755

; PRIOR FILING DATE: 2000-10-20

; PRIOR APPLICATION NUMBER: 60/237,768

; PRIOR FILING DATE: 2000-10-03

; PRIOR APPLICATION NUMBER: 60/231,498

; PRIOR FILING DATE: 2000-09-08

; NUMBER OF SEQ ID NOS: 207012

; SOFTWARE: FastSeq for Windows Version 4.0

; SEQ ID NO 2809

; LENGTH: 7070

; TYPE: DNA

; ORGANISM: Human

US-09-949-016-2809

Query Match 99.9%; Score 1499.4; DB 4; Length 7070;

Best Local Similarity 99.9%; Pred. No. 0;

Matches 1500; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 CTCACACAGATGTTATACAACTGATGAAACAGCCAAAATCTGAGATCCCTGG 60

Db 1628 CTCACACAGATGTTATACAACTGATGAAACAGCCAAAATCTGAGATCCCTGG 1687

QY 61 AAGTTCGATGATGACGCTCTGTTACAAAGCGTTGATACATGAATCTCAAGTGA 120

Db 1688 AAGTTCGATGATGACGCTCTGTTACAAAGCGTTGATACATGAATCTCAAGTGA 1747

QY 121 GTGAATTCGGAAGAAAGTCTCTCAACATTAAGTCCCATTTGGAAGCAATTCTGACCAGT 180

Db 1748 GTGAATTCGGAAGAAAGTCTCTCAACATTAAGTCCCATTTGGAAGCAATTCTGACCAGT 1807

QY 181 GGAAGCGTCTGACCTTTCTCTGACGAACTTTGGTGTGCTACAGCTGAAGAAATGATG 240

Db 1808 GGAAGCGTCTGACCTTTCTCTGACGAACTTTGGTGTGCTACAGCTGAAGAAATGATG 1867

QY 241 AATTAAAGCCGAGGACCACTATTGAGGCGACTTCCAGCAGTTCAAGCAGAAAGATG 300

Db 1868 AATTAAAGCCGAGGACCACTATTGAGGCGACTTCCAGCAGTTCAAGCAGAAAGATG 1927

QY 301 TACATAGGCGCTTCAAGAGGGAATTGAAACTAAAGAACTGTAATCATGAGTACTCTTG 360

Db 1928 TACATAGGCGCTTCAAGAGGGAATTGAAACTAAAGAACTGTAATCATGAGTACTCTTG 1987

QY 361 AGACTGTACGAATATTTCTGACAGACGACTTTGGAAGAGCTAGAGAACTTACCAGG 420

Db 1988 AGACTGTACGAATATTTCTGACAGACGACTTTGGAAGAGCTAGAGAACTTACCAGG 2047

QY 421 AGCCAGAGAGCTGCTCTCTGAGAGAGAGCCAGAAATGTCACCTGGCTTCTACGAAAGC 480

Db 2048 AGCCAGAGAGCTGCTCTCTGAGAGAGAGCCAGAAATGTCACCTGGCTTCTACGAAAGC 2107

QY 481 AGGCTGAGAGGTCAATACTGAGTGGGAAATTTGAACCTGCACTCCGCTGACTGGCAGA 540

Db 2108 AGGCTGAGAGGTCAATACTGAGTGGGAAATTTGAACCTGCACTCCGCTGACTGGCAGA 2167

QY 541 GAAAAATAGATGAGACCTTGAAGACTCCAGAACTTCAAGAGGCCACGGATGAGCTGG 600

Db 2168 GAAAAATAGATGAGACCTTGAAGACTCCGGGAATCTCAAGAGGCCACGGATGAGCTGG 2227

QY 601 ACCTCAAGCTGCGCAAGCTGAGTGATCAAGGATCCTGGCAGCCCGTGGCGATCTCC 660

Db 2228 ACCTCAAGCTGCGCAAGCTGAGTGATCAAGGATCCTGGCAGCCCGTGGCGATCTCC 2287

QY 661 TCATTGACTCTCTCCAAGATCACTTCGAGAAAGTCAAGGCACTTCGAGAGAAATTGGCC 720

Db 2288 TCATTGACTCTCTCCAAGATCACTTCGAGAAAGTCAAGGCACTTCGAGAGAAATTGGCC 2347

QY 721 CTCTGAAAGAGAACGTGAGCCACGTCAATGACCTTGCTGCGCAGCTTAACCACTTTGGCA 780

Db 2348 CTCTGAAAGAGAACGTGAGCCACGTCAATGACCTTGCTGCGCAGCTTAACCACTTTGGCA 2407

QY 781 TTCAGCTCTCACCGTATTAACCTCAGCACTCTGGAAGACCTGAACACAGATGGAAGCTTC 840

Db 2408 TTCAGCTCTCACCGTATTAACCTCAGCACTCTGGAAGACCTGAACACAGATGGAAGCTTC 2467

QY 841 TGCAAGTGCGCTGAGGACCGAGTCAAGCAGCTGATGAAGCCCAAGGACTTTGGTC 900

Db 2468 TGCAAGTGCGCTGAGGACCGAGTCAAGCAGCTGATGAAGCCCAAGGACTTTGGTC 2527

QY 901 CAGCATCTCAGCACTTTCTTTCCACGCTCTCCAGGGTCCCTGGAGAGAGCCATCTCGC 960

Db 2528 CAGCATCTCAGCACTTTCTTTCCACGCTCTCCAGGGTCCCTGGAGAGAGCCATCTCGC 2587

QY 961 CAACAAAGTGCCCTACTATATCAACCAAGACTCAACAACTTGCTGGAGACCATCCCA 1020

Db 2588 CAACAAAGTGCCCTACTATATCAACCAAGACTCAACAACTTGCTGGAGACCATCCCA 2647

QY 1021 AATGACAGAGCTCTACAGCTTTAGCTGACCTGAATATGTCAGATTCTCAGCTTATA 1080

Db 2648 AATGACAGAGCTCTACAGCTTTAGCTGACCTGAATATGTCAGATTCTCAGCTTATA 2707

QY 1081 GGACTGCCATGAAGTCCGAAGACTGCAAGGCCCTTGCTTGAATCTCTGAGCCTGT 1140

Db 2708 GGACTGCCATGAAGTCCGAAGACTGCAAGGCCCTTGCTTGAATCTCTGAGCCTGT 2767

QY 1141 CAGCTGCATGATGCTCTTGACCAAGCACAACTCAAGCAAAATGACCAAGCCATGATA 1200

Db 2768 CAGCTGCATGATGCTCTTGACCAAGCACAACTCAAGCAAAATGACCAAGCCATGATA 2827

QY 1201 TCCTGCAGATTATTAATTGTTGACCACTATTATGACCGCCTGGAGCAAGACACA 1260

Db 2828 TCCTGCAGATTATTAATTGTTGACCACTATTATGACCGCCTGGAGCAAGACACA 2887

QY 1261 ATTTGTCACGTCCTCTCTGCTGATGATGTCTGAACCTGCTGTAATGTTATG 1320

Db 2888 ATTTGTCACGTCCTCTCTGCTGATGATGTCTGAACCTGCTGTAATGTTATG 2947

QY 1321 ATACGGAGCAAGAGGAGATCCGTCCTCTTTTAAACTGGCATCTTCCCTGT 1380

Db 2948 ATACGGAGCAAGAGGAGATCCGTCCTCTTTTAAACTGGCATCTTCCCTGT 3007

QY 1381 GTAAAGCAATTTGGAAGACAGATACATACCTTTTCAAGCAAGTGCAAGTCAACAG 1440

Db 3008 GTAAAGCAATTTGGAAGACAGATACATACCTTTTCAAGCAAGTGCAAGTCAACAG 3067

QY 1441 GATTTGTGACCAAGCGAGGCTGGCTCTCTGATGATTTCTATCCAATTTCCAAGAC 1500

Db 3068 GATTTGTGACCAAGCGAGGCTGGCTCTCTGATGATTTCTATCCAATTTCCAAGAC 3127

QY 1501 A 1501

Db 3128 A 3128

RESULT 10

US-09-949-016-2810

; Sequence 2810, Application US/09949016

; Patent No. 6812339

; GENERAL INFORMATION:

; APPLICANT: VENTER, J. Craig et al.

; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED

; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF

; FILE REFERENCE: CL001307

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; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2810
; LENGTH: 7070
; TYPE: DNA
; ORGANISM: Human
; US-09-949-016-2810

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Query Match      99.9%; Score 1499.4; DB 4; Length 7070;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1500; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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QY 1 CTACACAGATGTTTATCACAACCTGGATGAAAACAGCCAAAATCCTGAGATCCCTGG 60
Db 1628 CTACACAGATGTTTATCACAACCTGGATGAAAACAGCCAAAATCCTGAGATCCCTGG 1687
QY 61 AAGGTTCCGATGATGACAGTCCCTGTTTCAAGAAGCGTTGGATTAACATGAACCTTCAAGTGA 120
Db 1688 AAGGTTCCGATGATGACAGTCCCTGTTTCAAGAAGCGTTGGATTAACATGAACCTTCAAGTGA 1747
QY 121 GTGAACCTTGGAAAAAGTCTCTCAACATTAGTCCCATTTGGAAAGCCAGTTCTGACCAGT 180
Db 1748 GTGAACCTTGGAAAAAGTCTCTCAACATTAGTCCCATTTGGAAAGCCAGTTCTGACCAGT 1807
QY 181 GGAAGCGTCTGCACCTTTCTCTGCAGGAACCTTCTGTGTGGCTACAGCTGAAGAATGATG 240
Db 1808 GGAAGCGTCTGCACCTTTCTCTGCAGGAACCTTCTGTGTGGCTACAGCTGAAGAATGATG 1867
QY 241 AATTAAAGCCGCGCAGGACCACTATTGGAGGCGACTTTCCAGCAGTTCCAGAACAGAACGATG 300
Db 1868 AATTAAAGCCGCGCAGGACCACTATTGGAGGCGACTTTCCAGCAGTTCCAGAACAGAACGATG 1927
QY 301 TACATAGGGCCTTCAAGAGGGAATTGAAAACTAAAGAACCTGTAATCATGACTCTTG 360
Db 1928 TACATAGGGCCTTCAAGAGGGAATTGAAAACTAAAGAACCTGTAATCATGACTCTTG 1987
QY 361 AGACTGTACGAATATTCTGACAGAGCAGCCTTTGGAAGGACTAGAGAACTCTACCAGG 420
Db 1988 AGACTGTACGAATATTCTGACAGAGCAGCCTTTGGAAGGACTAGAGAACTCTACCAGG 2047
QY 421 AGCCAGAGAGCTGCTCCTCTGAGAGAGAGCCCAAGATGTCACTGCGCTTCTACGAAGC 480
Db 2048 AGCCAGAGAGCTGCTCCTCTGAGAGAGAGCCCAAGATGTCACTGCGCTTCTACGAAGC 2107
QY 481 AGGTGAGAGGTCAATATACTGAGTGGGAAAAATTGAACTGCACTCCGCTGACTGGCAGA 540
Db 2108 AGGTGAGAGGTCAATATACTGAGTGGGAAAAATTGAACTGCACTCCGCTGACTGGCAGA 2167
QY 541 GAAAAATAGATGAGACCCCTTGAAAAGACTCCAGGAACCTTCAAGAGGCCACGATGAGCTGG 600
Db 2168 GAAAAATAGATGAGACCCCTTGAAAAGACTCCGGAACCTTCAAGAGGCCACGATGAGCTGG 2227
QY 601 ACCTCAAGCTGCGCCCAAGCTGAGGTGATCAAGGATCCTGGCAGCCCGTGGCGATCTCC 660
Db 2228 ACCTCAAGCTGCGCCCAAGCTGAGGTGATCAAGGATCCTGGCAGCCCGTGGCGATCTCC 2287
QY 661 TCATTGACTCTCTCCAAGATCACTCGAGAAAGTCAAGGCACTTCGAGAGAAATTGGCC 720
Db 2288 TCATTGACTCTCTCCAAGATCACTCGAGAAAGTCAAGGCACTTCGAGAGAAATTGGCC 2347
QY 721 CTCTGAAAAGAGAAAGTGAAGCAGTCAATGACCTTGTGCGCAGCTTACCACTTTGGGCA 780
Db 2348 CTCTGAAAAGAGAAAGTGAAGCAGTCAATGACCTTGTGCGCAGCTTACCACTTTGGGCA 2407
QY 781 TTCAGCTCTCACCGTATAACTCTAGCACTCTGGAAGACCTGAACACCAAGATGAAAGCTTC 840

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Db 2408 TTCAGCTCTCACCGTATAACTCTAGCACTCTGGAAGACCTGAAACACAGATGGAAGCTTC 2467
QY 841 TGCAGGTGCGCGTGAAGGAGCAGGAGTCAAGCAGCTGCATGAAGCCACAGGACTTGGTC 900
Db 2468 TGCAGGTGCGCGTGAAGGAGCAGGAGTCAAGCAGCTGCATGAAGCCACAGGACTTGGTC 2527
QY 901 CAGCATCTCAGCACTTTCTTTCCACGCTGTGCCAGGGTCCCTGGAGAGAGCCATCTGC 960
Db 2528 CAGCATCTCAGCACTTTCTTTCCACGCTGTGCCAGGGTCCCTGGAGAGAGCCATCTGC 2587
QY 961 CAAACAAAGTGCCCTACTATATCAACCAAGAGACTCAAAACAACTTGCTGGAGCCATCCCA 1020
Db 2588 CAAACAAAGTGCCCTACTATATCAACCAAGAGACTCAAAACAACTTGCTGGAGCCATCCCA 2647
QY 1021 AAATGACAGAGCTCTACCAAGTCTTTAGCTGACCTGAATAATGTCAAGTTCTCAGCTTATA 1080
Db 2648 AAATGACAGAGCTCTACCAAGTCTTTAGCTGACCTGAATAATGTCAAGTTCTCAGCTTATA 2707
QY 1081 GGAAGTCCATGAAACTCCGAAGACTGCAAGAGGCGCCCTTGGCTGGATCTCTGAGCCTGT 1140
Db 2708 GGAAGTCCATGAAACTCCGAAGACTGCAAGAGGCGCCCTTGGCTGGATCTCTGAGCCTGT 2767
QY 1141 CAGCTGCATGTGATGCTCTTGAACCAAGCAGCAGCAACCTCAAGCAAAATGACAGCCATGGATA 1200
Db 2768 CAGCTGCATGTGATGCTCTTGAACCAAGCAGCAGCAACCTCAAGCAAAATGACAGCCATGGATA 2827
QY 1201 TCCGCAAGATTATTAATTGTTGAACCACTATTATGACCCGCTGGAGCAAGCACAACA 1260
Db 2828 TCCGCAAGATTATTAATTGTTGAACCACTATTATGACCCGCTGGAGCAAGCACAACA 2887
QY 1261 ATTGCTCAACGTCCTCTCTGCTGCTGATATGTCTGAACCTGGCTGTAATGTTATG 1320
Db 2888 ATTGCTCAACGTCCTCTCTGCTGCTGATATGTCTGAACCTGGCTGTAATGTTATG 2947
QY 1321 ATACGGGACGAACAGGAGGATCCGTGCTCTGCTTTTAAACTGGCATCATTTCCCTGT 1380
Db 2948 ATACGGGACGAACAGGAGGATCCGTGCTCTGCTTTTAAACTGGCATCATTTCCCTGT 3007
QY 1381 GTAAAGCATTGGAAGACAAGTACAGATACTTTCAAGCAAGTGGCAAGTTCAACAG 1440
Db 3008 GTAAAGCATTGGAAGACAAGTACAGATACTTTCAAGCAAGTGGCAAGTTCAACAG 3067
QY 1441 GATTTGTGACCAGGCGCAGGCTGGGCTCTCTGTCATGATTCATCAAAATTCGAAGAC 1500
Db 3068 GATTTGTGACCAGGCGCAGGCTGGGCTCTCTGTCATGATTCATCAAAATTCGAAGAC 3127
QY 1501 A 1501
Db 3128 A 3128

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RESULT 11
US-09-949-016-2811
; Sequence 2811, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; PRIOR FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2811
; LENGTH: 7070

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; TYPE: DNA
; ORGANISM: Human
US-09-949-016-2811

Query Match      99.9%; Score 1499.4; DB 4; Length 7070;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1500; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 CTCACACAGATGTTTATCACAACTGATGAAAAACAGCCAAAAATCTGAGATCCCTGG 60
   |||||||
Db 1628 CTCACACAGATGTTTATCACAACTGATGAAAAACAGCCAAAAATCTGAGATCCCTGG 1687

QY 61 AAGGTTCCGATGATGACAGTCTGTACAAAGACGTTTGATACATGAACTTCAAGTGA 120
   |||||||
Db 1688 AAGGTTCCGATGATGACAGTCTGTACAAAGACGTTTGATACATGAACTTCAAGTGA 1747

QY 121 GTGAACCTCGGAAAAAGTCTCTCAACATTAGTCCCATTTGGAAGCCAGTTCTGACCAGT 180
   |||||||
Db 1748 GTGAACCTCGGAAAAAGTCTCTCAACATTAGTCCCATTTGGAAGCCAGTTCTGACCAGT 1807

QY 181 GGAAGCGTCTGCACTTTCTCTGACAGAACTTGTGTGGCTACAGCTGAAAGATGATG 240
   |||||||
Db 1808 GGAAGCGTCTGCACTTTCTCTGACAGAACTTGTGTGGCTACAGCTGAAAGATGATG 1867

QY 241 AATTAAGCCGGACGACCTATTGAGGCGACTTCCAGACAGTTCAAGACGAAGCATG 300
   |||||||
Db 1868 AATTAAGCCGGACGACCTATTGAGGCGACTTCCAGACAGTTCAAGACGAAGCATG 1927

QY 301 TACATAGGGCTTCAAGAGGGAATTGAAACTAAGAAGCTGTATCATGACTCTTG 360
   |||||||
Db 1928 TACATAGGGCTTCAAGAGGGAATTGAAACTAAGAAGCTGTATCATGACTCTTG 1987

QY 361 AGACTGTACGAATATTTCTGACAGAGCAGCTTTGGAAGGACTAGAGAACTCTACCAGG 420
   |||||||
Db 1988 AGACTGTACGAATATTTCTGACAGAGCAGCTTTGGAAGGACTAGAGAACTCTACCAGG 2047

QY 421 AGCCACAGAGCTGCTCTCTGAGAGAGAGCCAGAAATGTCACTCGCTTCTACGAAAGC 480
   |||||||
Db 2048 AGCCACAGAGCTGCTCTCTGAGAGAGAGCCAGAAATGTCACTCGCTTCTACGAAAGC 2107

QY 481 AGCTGAGAGGTCAATACTGATGGGAAAAATTGAACTGCATCCGCTGACTGGCAGA 540
   |||||||
Db 2108 AGCTGAGAGGTCAATACTGATGGGAAAAATTGAACTGCATCCGCTGACTGGCAGA 2167

QY 541 GAAAAATAGATGAGACCCCTTGAAAAGACTCCAGGAATTTCAAGAGGCCACCGATGAGCTGG 600
   |||||||
Db 2168 GAAAAATAGATGAGACCCCTTGAAAAGACTCCGCGGAATTTCAAGAGGCCACCGATGAGCTGG 2227

QY 601 ACCCTCAAGCTGGCCCAAGCTGAGGTGATCAAGGGATCCTGGCAGCCCGTGGCGATCTCC 660
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Db 2228 ACCCTCAAGCTGGCCCAAGCTGAGGTGATCAAGGGATCCTGGCAGCCCGTGGCGATCTCC 2287

QY 661 TCATTGACTCTCTCCAAGATCACCTCGAAGAAAGTCAAGGCACTTCGAGAGAAATTGCGC 720
   |||||||
Db 2288 TCATTGACTCTCTCCAAGATCACCTCGAAGAAAGTCAAGGCACTTCGAGAGAAATTGCGC 2347

QY 721 CTCTGAAAGAGAACTGAGCCAGCTCAATGACCTTGCTGCGCAGCTTAACCACTTTGGGCA 780
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Db 2348 CTCTGAAAGAGAACTGAGCCAGCTCAATGACCTTGCTGCGCAGCTTAACCACTTTGGGCA 2407

QY 781 TTCAGCTCTCAACCGTATTAACCTCAGCACTCTGGAAGAAGCTGAACACCAAGATGGAAGCTTC 840
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Db 2408 TTCAGCTCTCAACCGTATTAACCTCAGCACTCTGGAAGAAGCTGAACACCAAGATGGAAGCTTC 2467

QY 841 TGCAGGTGGCGCTCGAGGACCGAGTCAAGGCACTGCATGAAGCCCAACAGGGAATTTGGTC 900
   |||||||
Db 2468 TGCAGGTGGCGCTCGAGGACCGAGTCAAGGCACTGCATGAAGCCCAACAGGGAATTTGGTC 2527

QY 901 CAGCATCTCAGCACTTTCTTCCACAGTCTGTCCAGGGTCCCTGGAGAGAGCCATCTCGC 960
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Db 2528 CAGCATCTCAGCACTTTCTTCCACAGTCTGTCCAGGGTCCCTGGAGAGAGCCATCTCGC 2587

QY 961 CAAACAAAGTGCCCTACTATATCAACCAAGAGACTCAAAACAACCTTGCTGGGACCATCCCA 1020
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Db 2588 CAAACAAAGTGCCCTACTATATATCAACCAAGAGACTCAAAACAACCTTGCTGGGACCATCCCA 2647

QY 1021 AAATGACAGAGCTCTACCAAGTCTTTAGCTGACCTGAATATGTCAATTTCTCAGCTTATA 1080
   |||||||
Db 2648 AAATGACAGAGCTCTACCAAGTCTTTAGCTGACCTGAATATGTCAATTTCTCAGCTTATA 2707

QY 1081 GGAATGCCATGAAACTCCGAAAGACTGCAAGAGGCCCTTTGCTTGATCTCTTGAGCCTGT 1140
   |||||||
Db 2708 GGAATGCCATGAAACTCCGAAAGACTGCAAGAGGCCCTTTGCTTGATCTCTTGAGCCTGT 2767

QY 1141 CAGCTGATGATGCTCTTGACACAGCAAACTCAAGCAAAATGACCAAGCCCATGATA 1200
   |||||||
Db 2768 CAGCTGATGATGCTCTTGACACAGCAAACTCAAGCAAAATGACCAAGCCCATGATA 2827

QY 1201 TCCTGAGATTATTAATTGTTGACCACTATTATGACCGCGCTGGACCAAGACACAACA 1260
   |||||||
Db 2828 TCCTGAGATTATTAATTGTTGACCACTATTATGACCGCGCTGGACCAAGACACAACA 2887

QY 1261 ATTTGTCACAGTCCCTCTCTGCGTGAATATGTCTGAAGTGGCTGCTGAATGTTATG 1320
   |||||||
Db 2888 ATTTGTCACAGTCCCTCTCTGCGTGAATATGTCTGAAGTGGCTGCTGAATGTTATG 2947

QY 1321 ATACGGAGCAACAGGAGAGATCCGTCTCTGCTTTTAAACTGGCATCTTCCCTGT 1380
   |||||||
Db 2948 ATACGGAGCAACAGGAGAGATCCGTCTCTGCTTTTAAACTGGCATCTTCCCTGT 3007

QY 1381 GTAAAGCATTGGAAGACAAAGTACAGATACCTTTTCAAGCAAGTGCAAGTCAACAG 1440
   |||||||
Db 3008 GTAAAGCATTGGAAGACAAAGTACAGATACCTTTTCAAGCAAGTGCAAGTCAACAG 3067

QY 1441 GATTTGTGACCAAGCGAGGCTGGCTCTCTGATGATTTCAAAATTCACAGAC 1500
   |||||||
Db 3068 GATTTGTGACCAAGCGAGGCTGGCTCTCTGATGATTTCAAAATTCACAGAC 3127

QY 1501 A 1501
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Db 3128 A 3128
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RESULT 12
US-09-949-016-2812
; Sequence 2812, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; PRIOR FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2812
; LENGTH: 7109
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-2812
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Query Match      99.9%; Score 1499.4; DB 4; Length 7109;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1500; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 CTCACACAGATGTTTATCACAACTGATGAAAAACAGCCAAAAATCTGAGATCCCTGG 60
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Db 1628 CTCACACAGATGTTTATCACAACTGATGAAAAACAGCCAAAAATCTGAGATCCCTGG 1687
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QY 61 AAGTTCGATGATGACAGTCTGTTCACAAAGACGTTTGATTAACATGAACCTTCAAGTGA 120
Db 1688 AAGGTTCCGATGATGACAGTCTGTTCACAAAGACGTTTGATTAACATGAACCTTCAAGTGA 1747
QY 121 GTGAACCTCGGAAAAAGTCTCTCAACATTAGTCCCATTTGGAAGCCAGTTCTGAACAGT 180
Db 1748 GTGAACCTCGGAAAAAGTCTCTCAACATTAGTCCCATTTGGAAGCCAGTTCTGAACAGT 1807
QY 181 GGAAGCGTCTGCACCTTCTCTGCAGGAACCTTCTGTGTGGCTACAGCTGAAGATGATG 240
Db 1808 GGAAGCGTCTGCACCTTCTCTGCAGGAACCTTCTGTGTGGCTACAGCTGAAGATGATG 1867
QY 241 AATTAAAGCCGGCAGGACACCTAATTGAGGCGACTTTCCAGCAGTTCAAGAGCAAGAACGATG 300
Db 1868 AATTAAAGCCGGCAGGACACCTAATTGAGGCGACTTTCCAGCAGTTCAAGAGCAAGAACGATG 1927
QY 301 TACATAGGGCCCTTCAAGAGGGAATTGAAAACCTTAAGAACCTGTATCATGAGTACTCTTG 360
Db 1928 TACATAGGGCCCTTCAAGAGGGAATTGAAAACCTGTATCATGAGTACTCTTG 1987
QY 361 AGACTGTACGAATATTTCTGACAGAGCAGCCTTTGGAAGACTAGAGAAAACCTTACCAGG 420
Db 1988 AGACTGTACGAATATTTCTGACAGAGCAGCCTTTGGAAGACTAGAGAAAACCTTACCAGG 2047
QY 421 AGCCCAAGAGAGCTGCCTCTCTGAGAGAGAGCCCAAGATGTCACTGGCTTCTACGAAAGC 480
Db 2048 AGCCCAAGAGAGCTGCCTCTCTGAGAGAGAGCCCAAGATGTCACTGGCTTCTACGAAAGC 2107
QY 481 AGGCTGAGGAGGTCAATACTGAGTGGGAAAAATTGAACTGCACTCCGCTGACTGGCAGA 540
Db 2108 AGGCTGAGGAGGTCAATACTGAGTGGGAAAAATTGAACTGCACTCCGCTGACTGGCAGA 2167
QY 541 GAAAAATAGATGAGACCCCTTGAAAGACTCCAGGAACCTTCAAGAGGCCACGATGAGCTGG 600
Db 2168 GAAAAATAGATGAGACCCCTTGAAAGACTCCGGAACCTTCAAGAGGCCACGATGAGCTGG 2227
QY 601 ACCTCAAGCTGGCCCAAGCTGAGGTGATCAAGGGATCTGCGAGCCCGTGGCGATCTCC 660
Db 2228 ACCTCAAGCTGGCCCAAGCTGAGGTGATCAAGGGATCTGCGAGCCCGTGGCGATCTCC 2287
QY 661 TCATTGACTCTCTCCAAGATCACTCGAGAAAGTCAAGGCACCTTCAAGAGAAATTTGCCG 720
Db 2288 TCATTGACTCTCTCCAAGATCACTCGAGAAAGTCAAGGCACCTTCAAGAGAAATTTGCCG 2347
QY 721 CTCTGAAGAGAACGTGAGCCACGTCAATGACCTTGCTGCCAGCTTACCACTTTGGGCA 780
Db 2348 CTCTGAAGAGAACGTGAGCCACGTCAATGACCTTGCTGCCAGCTTACCACTTTGGGCA 2407
QY 781 TTCAGCTCTCAACCGTATTAACCTCAGCAGCTCTGGAAGACCTGAACCAAGATGGAAGCTTC 840
Db 2408 TTCAGCTCTCAACCGTATTAACCTCAGCAGCTCTGGAAGACCTGAACCAAGATGGAAGCTTC 2467
QY 841 TGCAGGTGGCCGTGAGGAGACCGAGTCAGGCAAGCTGATGAAGCCCAAGGACTTTGGTC 900
Db 2468 TGCAGGTGGCCGTGAGGAGACCGAGTCAGGCAAGCTGATGAAGCCCAAGGACTTTGGTC 2527
QY 901 CAGCATCTCAGCACTTTCTTTCACAGTCTGTCCAGGGTCCCTGGGAGAGAGCCATCTGCC 960
Db 2528 CAGCATCTCAGCACTTTCTTTCACAGTCTGTCCAGGGTCCCTGGGAGAGAGCCATCTGCC 2587
QY 961 CAACAAGTGGCCCTACTATATCAACCAAGAGACTCAACAACCTTGTCTGGGACCATCCCA 1020
Db 2588 CAACAAGTGGCCCTACTATATCAACCAAGAGACTCAACAACCTTGTCTGGGACCATCCCA 2647
QY 1021 AAATGACAGAGCTCTACCAAGTCTTAACTGACCTGAATTAATGTCAGATTTCAAGCTTATA 1080
Db 2648 AAATGACAGAGCTCTACCAAGTCTTAACTGACCTGAATTAATGTCAGATTTCAAGCTTATA 2707
QY 1081 GGAAGTCCATGAAACTCCGAAGACTGCAGAAAGCCCTTTGCTTGGATCTTTGAGCCCTGT 1140
Db 2708 GGAAGTCCATGAAACTCCGAAGACTGCAGAAAGCCCTTTGCTTGGATCTTTGAGCCCTGT 2767
QY 1141 CAGCTGCATGTGATGCTTTGGAACAGACAACCTCAAGCAAAATGACCAAGCCCATGATA 1200
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Db 2768 CAGCTGCATGTGATGCTTTGGAGCACGACCAACCTCAAGCAAAATGACCAAGCCCATGATA 2827
QY 1201 TCCTGACAGATTATTAATTGTTTGGACCACATATTATGACCGCCCTGGAGCAAGACACAACA 1260
Db 2828 TCCTGACAGATTATTAATTGTTTGGACCACATATTATGACCGCCCTGGAGCAAGACACAACA 2887
QY 1261 AATTGGTCAACGTCCTCTCTGCGTGGATATGTGTCTGAACTGGCTGCTGAATGTTTATG 1320
Db 2888 AATTGGTCAACGTCCTCTCTGCGTGGATATGTGTCTGAACTGGCTGCTGAATGTTTATG 2947
QY 1321 ATACGGAGCAAGAGGAGGATCCGTGTCTGTCTTTTAAACTGGCATCATTTCCCTGT 1380
Db 2948 ATACGGAGCAAGAGGAGGATCCGTGTCTGTCTTTTAAACTGGCATCATTTCCCTGT 3007
QY 1381 GTAAAGCACATTTGGAAGACAGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCAACAG 1440
Db 3008 GTAAAGCACATTTGGAAGACAGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCAACAG 3067
QY 1441 GATTTGTGACCAAGCGAGGCTGGGCTCTCTTTCAGATGATTCTATCCAAATTTCCAAGAC 1500
Db 3068 GATTTGTGACCAAGCGAGGCTGGGCTCTCTTTCAGATGATTCTATCCAAATTTCCAAGAC 3127
QY 1501 A 1501
Db 3128 A 3128

RESULT 13
US-09-949-016-2813
; Sequence 2813, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949, 016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241, 755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237, 768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231, 498
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2813
; LENGTH: 7109
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-2813

Query Match 99.9%; Score 1499.4; DB 4; Length 7109;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1500; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 CTCAACAGAGTGTATTCACAACCTGATGAAAAACGCCAAAAATCTGAGATCCCTGG 60
Db 1628 CTCAACAGAGTGTATTCACAACCTGATGAAAAACGCCAAAAATCTGAGATCCCTGG 1687
QY 61 AAGTTCGATGATGACAGTCTGTTCACAAAGACGTTTGATTAACATGAACCTTCAAGTGA 120
Db 1688 AAGTTCGATGATGACAGTCTGTTCACAAAGACGTTTGATTAACATGAACCTTCAAGTGA 1747
QY 121 GTGAACCTCGGAAAAAGTCTCTCAACATTAGTCCCATTTGGAAGCCAGTTCTGAACAGT 180
Db 1748 GTGAACCTCGGAAAAAGTCTCTCAACATTAGTCCCATTTGGAAGCCAGTTCTGAACAGT 1807
QY 181 GGAAGCGTCTGCACCTTCTCTGCAGGAACCTTCTGTGTGGCTACAGCTGAAGATGATG 240
Db 1808 GGAAGCGTCTGCACCTTCTCTGCAGGAACCTTCTGTGTGGCTACAGCTGAAGATGATG 1867
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QY 241 AATTAGCCGGGAGGCACCTATTGGAGGCACTTCCAGCAGTTCCAGAACGATG 300
| | | | |
DB 1868 AATTAGCCGGGAGGCACCTATTGGAGGCACTTCCAGCAGTTCCAGAACGATG 1927
QY 301 TACATAGGCGCTTCAAGAGGGAATGAAACTAAAGAACCTGTAATCATGACTCTTG 360
| | | | |
DB 1928 TACATAGGCGCTTCAAGAGGGAATGAAACTAAAGAACCTGTAATCATGACTCTTG 1987
QY 361 AGACTGTACGAATATTTCTGACAGAGCAGCTTTGGAAGGACTAGAAACTCTACGAG 420
| | | | |
DB 1988 AGACTGTACGAATATTTCTGACAGAGCAGCTTTGGAAGGACTAGAAACTCTACGAG 2047
QY 421 AGCCCAAGAGCTGCCCTCCTGAGAGAGAGCCCAGAATGTCACTCGGCTTCTACGAAAGC 480
| | | | |
DB 2048 AGCCCAAGAGCTGCCCTCCTGAGAGAGAGCCCAGAATGTCACTCGGCTTCTACGAAAGC 2107
QY 481 AGGCTGAGGAGGTCAATATCTGAGTGGGAAAAATTGAACCTGCACTCCGCTGACTGGCAGA 540
| | | | |
DB 2108 AGGCTGAGGAGGTCAATATCTGAGTGGGAAAAATTGAACCTGCACTCCGCTGACTGGCAGA 2167
QY 541 GAAAAATAGATGAGACCCCTTGAAAAGACTCCAGAACTTCAAGAGGCCACGATGAGCTGG 600
| | | | |
DB 2168 GAAAAATAGATGAGACCCCTTGAAAAGACTCCGGAACCTTCAAGAGGCCACGATGAGCTGG 2227
QY 601 ACCTCAAGCTGCGCCCAAGCTGAGTGATCAAGGGATCCTGCGAGCCCGTGGCGATCTCC 660
| | | | |
DB 2228 ACCTCAAGCTGCGCCCAAGCTGAGTGATCAAGGGATCCTGCGAGCCCGTGGCGATCTCC 2287
QY 661 TCATTGACTCTCTCCAAGATCACTCGAGAAAGTCAAGGCACCTCGAGGAGAAATTTGCCG 720
| | | | |
DB 2288 TCATTGACTCTCTCCAAGATCACTCGAGAAAGTCAAGGCACCTCGAGGAGAAATTTGCCG 2347
QY 721 CTCTGAAAAGAGAACGTGAGCCACGTCATATGACCTTGCTCGCCAGCTTACCACTTTGGGCA 780
| | | | |
DB 2348 CTCTGAAAAGAGAACGTGAGCCACGTCATATGACCTTGCTCGCCAGCTTACCACTTTGGGCA 2407
QY 781 TTCAGCTCTACCGTATTAACCTCAGCAGCTCTGGAAGACCTGAACACCGAGTGAAGCTTC 840
| | | | |
DB 2408 TTCAGCTCTACCGTATTAACCTCAGCAGCTCTGGAAGACCTGAACACCGAGTGAAGCTTC 2467
QY 841 TGCAGGTGCGCTGAGGAGCCGAGTCAAGGAGCTGCATGAAGCCACAGGGACTTTGGTC 900
| | | | |
DB 2468 TGCAGGTGCGCTGAGGAGCCGAGTCAAGGAGCTGCATGAAGCCACAGGGACTTTGGTC 2527
QY 901 CAGCATCTCAGCACTTTCTTCCAGCTGTGTCCAGGGTCCCTGGAGAGAGCCATCTCGC 960
| | | | |
DB 2528 CAGCATCTCAGCACTTTCTTCCAGCTGTGTCCAGGGTCCCTGGAGAGAGCCATCTCGC 2587
QY 961 CAAACAAAGTGCCCTACTATATCAACCCAGGAGCTCAAAACAACCTTGCTGGGAACCATCCA 1020
| | | | |
DB 2588 CAAACAAAGTGCCCTACTATATCAACCCAGGAGCTCAAAACAACCTTGCTGGGAACCATCCA 2647
QY 1021 AAATGACAGAGCTCTACCACTTTAGCTGACCTGAATAATGTCAAGTCTCAGCTTATA 1080
| | | | |
DB 2648 AAATGACAGAGCTCTACCACTTTAGCTGACCTGAATAATGTCAAGTCTCAGCTTATA 2707
QY 1081 GGAAGCTGCAAGAACTCCGGAAGCTGCAAGAGGCCCTTTGCTTGATCTTGAGCCTGT 1140
| | | | |
DB 2708 GGAAGCTGCAAGAACTCCGGAAGCTGCAAGAGGCCCTTTGCTTGATCTTGAGCCTGT 2767
QY 1141 CAGCTGCATGTGATGCTTGGAACCAAGCAAACTCAAGCAAAATGACCAAGCCCATGATA 1200
| | | | |
DB 2768 CAGCTGCATGTGATGCTTGGAACCAAGCAAACTCAAGCAAAATGACCAAGCCCATGATA 2827
QY 1201 TCCTGCAGATTAATTAATGTTTGAACCACTATTTATGACCGCTTGAGAGCAAGACACA 1260
| | | | |
DB 2828 TCCTGCAGATTAATTAATGTTTGAACCACTATTTATGACCGCTTGAGAGCAAGACACA 2887
QY 1261 ATTTGGTCAAGCTCCCTCTCTGCGTGATATGTCTGAAGTGGCTGCTGAATGTTTATG 1320
| | | | |
DB 2888 ATTTGGTCAAGCTCCCTCTCTGCGTGATATGTCTGAAGTGGCTGCTGAATGTTTATG 2947
QY 1321 ATACGGAGCAAGAGGAGATCCGTGCTGTCTTTTAAAACTGGCATCTTCCCTGT 1380

DB 2948 ATACGGAGCAACAGGAGATCCGTGCTCTGCTTTTAAAACTGGCATCTTCCCTGT 3007
QY 1381 GTAAAGCAGATTTGGAAGACAGATACGATACCTTTTCAAGCAGGTGCAAGTTCAACAG 1440
| | | | |
DB 3008 GTAAAGCAGATTTGGAAGACAGATACGATACCTTTTCAAGCAGGTGCAAGTTCAACAG 3067
QY 1441 GATTTGTGACCAAGCGCAGGCTGGGCTCTCTCTGATGATTTCTCAAAATTTCCAAGAC 1500
| | | | |
DB 3068 GATTTGTGACCAAGCGCAGGCTGGGCTCTCTCTGATGATTTCTCAAAATTTCCAAGAC 3127
QY 1501 A 1501
DB 3128 A 3128

RESULT 14
US-09-949-016-2814
; Sequence 2814, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949, 016
; PRIOR FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241, 755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237, 768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231, 498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2814
; LENGTH: 7109
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-2814

Query Match 99.9%; Score 1499.4; DB 4; Length 7109;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1500; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1 CTCACACAGATGTTTATCACCAACCTGATGAAAAACAGCCAAAAATCTGAGATCCCTGG 60
| | | | |
DB 1628 CTCACACAGATGTTTATCACCAACCTGATGAAAAACAGCCAAAAATCTGAGATCCCTGG 1687
QY 61 AAGGTCGATGATGAGTCCCTGTTTCAAGAAGCTTTGATACATGAACCTCAAGTGA 120
| | | | |
DB 1688 AAGGTCGATGATGAGTCCCTGTTTCAAGAAGCTTTGATACATGAACCTCAAGTGA 1747
QY 121 GTGAACCTTCGAAAAAGTCTCTCAACATTAAGTCCCATTTGGAAGCCAGTTCTGACCAGT 180
| | | | |
DB 1748 GTGAACCTTCGAAAAAGTCTCTCAACATTAAGTCCCATTTGGAAGCCAGTTCTGACCAGT 1807
QY 181 GGAAGCGTCTGACCTTCTCTGAGGAACTTCTGTGTGCTGCTACAGCTGAAAAGATGATG 240
| | | | |
DB 1808 GGAAGCGTCTGACCTTCTCTGAGGAACTTCTGTGTGCTGCTACAGCTGAAAAGATGATG 1867
QY 241 AATTAGCCGGGAGGCACCTATTGAGGCGAAGCTTTCCAGCAGTTCAAGAGCAGAAAGATG 300
| | | | |
DB 1868 AATTAGCCGGGAGGCACCTATTGAGGCGAAGCTTTCCAGCAGTTCAAGAGCAGAAAGATG 1927
QY 301 TACATAGGCGCTTCAAGAGGGAATGAAACTAAAGAACCTGTAATCATGAGTACTCTTG 360
| | | | |
DB 1928 TACATAGGCGCTTCAAGAGGGAATGAAACTAAAGAACCTGTAATCATGAGTACTCTTG 1987
QY 361 AGACTGTACGAATATTTCTGACAGAGCAGCTTTGGAAGACTAGAGAACTCTACGAG 420
| | | | |
DB 1988 AGACTGTACGAATATTTCTGACAGAGCAGCTTTGGAAGACTAGAGAACTCTACGAG 2047

QY 421 AGCCAGAGAGCTGCTCTCTGAGAGAGAGCCGAGAATGTCACTGGCTTCTACGAAAGC 480
 Db 2048 AGCCAGAGAGCTGCTCTCTGAGAGAGAGCCGAGAATGTCACTGGCTTCTACGAAAGC 2107
 QY 481 AGCTGAGGAGGTCAATACTGAGTGGAAAAATTGAACCTGCACTCCGCTGACTGCGCAGA 540
 Db 2108 AGCTGAGGAGGTCAATACTGAGTGGAAAAATTGAACCTGCACTCCGCTGACTGCGCAGA 2167
 QY 541 GAAAAATAGATGAGACCCCTTGAAAGACTCCAGAACTTCAAGAGGCCACGATGAGCTGG 600
 Db 2168 GAAAAATAGATGAGACCCCTTGAAAGACTCCGGAAGCTTCAAGAGGCCACGATGAGCTGG 2227
 QY 601 ACCTCAAGCTGCGCCAGAGCTGAGGTGATCAAGGATCCTGGAGCCCGTGGCGATCTCC 660
 Db 2228 ACCTCAAGCTGCGCCAGAGCTGAGGTGATCAAGGATCCTGGAGCCCGTGGCGATCTCC 2287
 QY 661 TCATTGACTCTCTCCAAGATCACTCGAAGAAAGTCAAGGCACTTCGAGAGAAATTGCGC 720
 Db 2288 TCATTGACTCTCTCCAAGATCACTCGAAGAAAGTCAAGGCACTTCGAGAGAAATTGCGC 2347
 QY 721 CTCTGAAGAAGACGTGAGCCAGTCAATGACCTTGTGCGCAAGCTTACCACTTTGGGCA 780
 Db 2348 CTCTGAAGAAGACGTGAGCCAGTCAATGACCTTGTGCGCAAGCTTACCACTTTGGGCA 2407
 QY 781 TTCAGCTCTCACCGTATTAACCTCAGCACTCTGGAAGACCTGAACACCCAGATGAAAGCTTC 840
 Db 2408 TTCAGCTCTCACCGTATTAACCTCAGCACTCTGGAAGACCTGAACACCCAGATGAAAGCTTC 2467
 QY 841 TGCAGGTGGCCGTCGAGAGCCGAGTCAAGGCACTGATGAAAGCCACAGGAACTTTGGTC 900
 Db 2468 TGCAGGTGGCCGTCGAGAGCCGAGTCAAGGCACTGATGAAAGCCACAGGAACTTTGGTC 2527
 QY 901 CAGCATCTCAGCACTTTCTTTCACAGCTGTGTCAGGGTCCCTGGAGAGAACCATCTCGC 960
 Db 2528 CAGCATCTCAGCACTTTCTTTCACAGCTGTGTCAGGGTCCCTGGAGAGAACCATCTCGC 2587
 QY 961 CAACAAGAGTCCCTTAATAATCAACCCAGAGACTCAAAACAACCTTGTGGAGACCATCCCA 1020
 Db 2588 CAACAAGAGTCCCTTAATAATCAACCCAGAGACTCAAAACAACCTTGTGGAGACCATCCCA 2647
 QY 1021 AAATGACAGAGCTCTACAGTCTTTAGCTGACCTGAATAATGTGAGATTTCTCAGCTTATA 1080
 Db 2648 AAATGACAGAGCTCTACAGTCTTTAGCTGACCTGAATAATGTGAGATTTCTCAGCTTATA 2707
 QY 1081 GGACTGCCATGAAACTCCGAAGACTGCAAGAGCCCTTTGCTGGATCTCTTGAGCCTGT 1140
 Db 2708 GGACTGCCATGAAACTCCGAAGACTGCAAGAGCCCTTTGCTGGATCTCTTGAGCCTGT 2767
 QY 1141 CAGCTGCATGTATGCTTGGACCAAGCAAACTCAAGCAAAATGACCAAGCCCATGAGTA 1200
 Db 2768 CAGCTGCATGTATGCTTGGACCAAGCAAACTCAAGCAAAATGACCAAGCCCATGAGTA 2827
 QY 1201 TCCTGCAATTAATTAATGTTTGAACCACTATTATGACCCGCTGGAGCAAGAGCACACA 1260
 Db 2828 TCCTGCAATTAATTAATGTTTGAACCACTATTATGACCCGCTGGAGCAAGAGCACACA 2887
 QY 1261 AATTGGTCAACGTCCCTCTGCGGTGATATGTGTCTGAACTGGCTGTGATGTTTATG 1320
 Db 2888 AATTGGTCAACGTCCCTCTGCGGTGATATGTGTCTGAACTGGCTGTGATGTTTATG 2947
 QY 1321 ATACGGGAGCAAGAGGAGATCCGTGCTGTCTTTTAAAACTGGCATCATTTCCCTGT 1380
 Db 2948 ATACGGGAGCAAGAGGAGATCCGTGCTGTCTTTTAAAACTGGCATCATTTCCCTGT 3007
 QY 1381 GTAAGACATTTTGAAGACAAATACAGATACCTTTTCAAGCAAGTGGCAAGTTCACACAG 1440
 Db 3008 GTAAGACATTTTGAAGACAAATACAGATACCTTTTCAAGCAAGTGGCAAGTTCACACAG 3067
 QY 1441 GATTTTGTGACCAAGCCGAGGCTGGCTCTTCTGATGATTTCTATCCAAATTCACAGAC 1500
 Db 3068 GATTTTGTGACCAAGCCGAGGCTGGCTCTTCTGATGATTTCTATCCAAATTCACAGAC 3127
 QY 1501 A 1501

Db 3128 A 3128

RESULT 15
 US-09-949-016-2815
 ; Sequence 2815, Application US/09949016
 ; Patent No. 6812339
 ; GENERAL INFORMATION:
 ; APPLICANT: VENTER, J. Craig et al.
 ; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
 ; FILE REFERENCE: C1001307
 ; CURRENT APPLICATION NUMBER: US/09/949,016
 ; PRIOR APPLICATION NUMBER: 60/241,755
 ; PRIOR FILING DATE: 2000-10-20
 ; PRIOR APPLICATION NUMBER: 60/237,768
 ; PRIOR FILING DATE: 2000-10-03
 ; PRIOR APPLICATION NUMBER: 60/231,498
 ; NUMBER OF SEQ ID NOS: 207012
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 2815
 ; LENGTH: 7109
 ; TYPE: DNA
 ; ORGANISM: Human
 US-09-949-016-2815

Query Match 99.9%; Score 1499.4; DB 4; Length 7109;
 Best Local Similarity 99.9%; Pred. No. 0;
 Matches 1500; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 CTCACACAGATGTTTATCACAACCTGGATGAAAAACAGCCAAAAATCCTGAGATCCCTGG 60
 Db 1628 CTCACACAGATGTTTATCACAACCTGGATGAAAAACAGCCAAAAATCCTGAGATCCCTGG 1687
 QY 61 AAGGTTCCGATGATGACAGTCTCTTCAACATTAGTCCCATTTGGAAGCCAGTTCTGACCACT 120
 Db 1688 AAGGTTCCGATGATGACAGTCTCTTCAACATTAGTCCCATTTGGAAGCCAGTTCTGACCACT 1747
 QY 121 GTGAACCTCGGAAAAAGTCTCTCAACATTAGTCCCATTTGGAAGCCAGTTCTGACCACT 180
 Db 1748 GTGAACCTCGGAAAAAGTCTCTCAACATTAGTCCCATTTGGAAGCCAGTTCTGACCACT 1807
 QY 181 GGAAGCGTCTGACCTTCTCTGAGAACTTCTGTGTGCTACAGCTGAAAGATGATG 240
 Db 1808 GGAAGCGTCTGACCTTCTCTGAGAACTTCTGTGTGCTACAGCTGAAAGATGATG 1867
 QY 241 AATTAAAGCCGAGGACCACTTATGAGGCGACTTTCAGCAAGTTCAAGACAGACGATG 300
 Db 1868 AATTAAAGCCGAGGACCACTTATGAGGCGACTTTCAGCAAGTTCAAGACAGACGATG 1927
 QY 301 TACATAGGGCTTCAAGAGGGAATTGAAAACTTAAAGAACTGTATCATGATGATCTTG 360
 Db 1928 TACATAGGGCTTCAAGAGGGAATTGAAAACTTAAAGAACTGTATCATGATGATCTTG 1987
 QY 361 AGACTGTACGAATATTTCTGACAGACAGCCCTTTGGAAGAACTAGAGAACTCTACAGG 420
 Db 1988 AGACTGTACGAATATTTCTGACAGACAGCCCTTTGGAAGAACTAGAGAACTCTACAGG 2047
 QY 421 AGCCAGAGAGAGTGCCTCTGAGAGAGAGAGCCCAATGTCACTCGGCTTCTACGAAAGC 480
 Db 2048 AGCCAGAGAGAGTGCCTCTGAGAGAGAGAGCCCAATGTCACTCGGCTTCTACGAAAGC 2107
 QY 481 AGCTGAGGAGGTCAATACTGAGTGGAAAAATTGAACCTGCACTCCGCTGACTGCGCAGA 540
 Db 2108 AGCTGAGGAGGTCAATACTGAGTGGAAAAATTGAACCTGCACTCCGCTGACTGCGCAGA 2167
 QY 541 GAAAAATAGATGAGACCCCTTGAAAGACTCCAGGAACTTCAAGAGGCCACGATGAGCTGG 600
 Db 2168 GAAAAATAGATGAGACCCCTTGAAAGACTCCGGAACCTTCAAGAGGCCACGATGAGCTGG 2227

QY 601 ACCCTAAGCTGCGCCCAAGCTGAGGTGATCAAGGGATCCTGGCAGCCCGTGGCGATCTCC 660
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Db 2228 ACCCTAAGCTGCGCCCAAGCTGAGGTGATCAAGGGATCCTGGCAGCCCGTGGCGATCTCC 2287
QY 661 TCATTGACTCTCTCCAAGATCACTCGAAGAAAGTCAAGGCACCTTCGAGAGAAATTGCGC 720
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Db 2288 TCATTGACTCTCTCCAAGATCACTCGAAGAAAGTCAAGGCACCTTCGAGAGAAATTGCGC 2347
QY 721 CTCTGAAGAGAAAGTGAAGCCAGTCAATGACCTTGCTGCGCAGCTTACCACTTTGGGCA 780
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Db 2348 CTCTGAAGAGAAAGTGAAGCCAGTCAATGACCTTGCTGCGCAGCTTACCACTTTGGGCA 2407
QY 781 TTCAGCTCTCACCGTATTAACCTCAGCAGCTCTGGAAGACCTGAACACCATGGAAGCTTC 840
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QY 1501 A 1501
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Db 3128 A 3128

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Job time : 267.233 secs

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OM nucleic - nucleic search, using sw model

Run on: March 2, 2005, 04:16:40 ; Search time 261.233 Seconds
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9401.765 Million cell updates/sec

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Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 1202784 seqs, 818138359 residues

Total number of hits satisfying chosen parameters: 2405568

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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2	1499.4	99.9	13977	3	US-09-484-970B-60
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4	1497.8	99.8	7070	4	US-09-949-016-2805
5	1497.8	99.8	7070	4	US-09-949-016-2806
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7	1497.8	99.8	7070	4	US-09-949-016-2808
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ALIGNMENTS

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; Sequence 1, Application US/09687875A
; Patent No. 6544786
; GENERAL INFORMATION:
; APPLICANT: Xiao, Xiao
; APPLICANT: Liu, Paul
; TITLE OF INVENTION: METHOD AND VECTOR FOR PRODUCING AND TRANSFERRING TRANS-SPICED PEI
; FILE REFERENCE: 00792
; CURRENT APPLICATION NUMBER: US/09/687, 875A
; CURRENT FILING DATE: 2000-10-13
; PRIOR APPLICATION NUMBER: 60/158, 868
; PRIOR FILING DATE: 1999-10-15
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
; LENGTH: 5952
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (2897)..(2898)
; OTHER INFORMATION: S4 junction site
; NAME/KEY: misc feature
; LOCATION: (3198)..(3199)
; OTHER INFORMATION: S2 junction site
US-09-687-875A-1

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Best local Similarity 99.9%; Pred. No. 0;
Matches 1500; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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Db 4451 A 4451

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; Sequence 60, Application US/09484970B
; Patent No. 6426186
; GENERAL INFORMATION:
; APPLICANT: Jones, Karen A.
; APPLICANT: Volkmut, Wayne
; APPLICANT: Walker, Michael G.
; TITLE OF INVENTION: BONE REMODELING GENES
; FILE REFERENCE: PB-0014 US
; CURRENT APPLICATION NUMBER: US/09/484,970B
; NUMBER OF SEQ ID NOS: 172
; SOFTWARE: PERL Program
; SEQ ID NO 60
; LENGTH: 13977
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: Incyte ID No. 6426186 229357.11CB1
; NAME/KEY: unsure
; LOCATION: 11721-11761, 12294, 13969
; OTHER INFORMATION: a, t, c, g, or other
US-09-484-970B-60

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Best Local Similarity 99.9%; Pred. No. 0;
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; Sequence 2804, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CU001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; PRIOR FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2804
; LENGTH: 7070
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-2804
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Best Local Similarity 99.9%; Pred. No. 0;
Matches 1499; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
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Db 2165 AGAGAAAAATAGATGAGACCTTGAAGAAGCTCCGGAACCTCAAGAGGCCACGGATGAGC 2224
QY 781 TGGACCTCAAGCTGCGCCAAAGCTGAGGTGATCAAGGGATCCTGGCAGCCGCTGGCGATC 840
Db 2225 TGGACCTCAAGCTGCGCCAAAGCTGAGGTGATCAAGGGATCCTGGCAGCCGCTGGCGATC 2284
QY 841 TCCTCATTTGACTCTCTCCAGATCACTCCGAAAAAGTCAAGGCACCTTCAGAGAGAAATTG 900
Db 2285 TCCTCATTTGACTCTCTCCAGATCACTCCGAAAAAGTCAAGGCACCTTCAGAGAGAAATTG 2344
QY 901 CGCCTCTGAAAGAGAACGTGAGCCACGTCAATGACCTTGCTCGCCAGCTTACCACTTTGG 960
Db 2345 CGCCTCTGAAAGAGAACGTGAGCCACGTCAATGACCTTGCTCGCCAGCTTACCACTTTGG 2404
QY 961 GCATTACGCTTCAACCGTATAACCTCAAGCACTCTGGAAGACCTGAACACCATGAGAAC 1020
Db 2405 GCATTACGCTTCAACCGTATAACCTCAAGCACTCTGGAAGACCTGAACACCATGAGAAC 2464
QY 1021 TTCTGAGGTGGCCGCTGAGGAGCCAGTCAAGCAGCTGCAATGAAGCCCAAGGGAATTG 1080
Db 2465 TTCTGAGGTGGCCGCTGAGGAGCCAGTCAAGCAGCTGCAATGAAGCCCAAGGGAATTG 2524
QY 1081 GTCCAGCATCTCAGCACTTTCTTTCCACGCTGTCTCCAGGGTCCCTGGAGAGGCCATCT 1140
Db 2525 GTCCAGCATCTCAGCACTTTCTTTCCACGCTGTCTCCAGGGTCCCTGGAGAGGCCATCT 2584
QY 1141 CGCCAAACAAGTGCCTTACTATATCAACCAAGAGACTCAAAACAACCTTGCTGGAGCCATC 1200
Db 2585 CGCCAAACAAGTGCCTTACTATATCAACCAAGAGACTCAAAACAACCTTGCTGGAGCCATC 2644
QY 1201 CCAAAATGACAGAGCTTCAACGACTCTTTAGCTGACCTGAATATGTGAGATTCTCAGCTT 1260
Db 2645 CCAAAATGACAGAGCTTCAACGACTCTTTAGCTGACCTGAATATGTGAGATTCTCAGCTT 2704
QY 1261 ATAGGACTGCCATGAAACTCCGAAGACTGCAAGAGCCCTTTGCTTGATCTCTTGAGCC 1320
Db 2705 ATAGGACTGCCATGAAACTCCGAAGACTGCAAGAGCCCTTTGCTTGATCTCTTGAGCC 2764
QY 1321 TGTCACTGATGATGATGCTTGAGACCAACAACCTCAAGCAAAATGACCAAGCCCATGG 1380
Db 2765 TGTCACTGATGATGATGCTTGAGACCAACAACCTCAAGCAAAATGACCAAGCCCATGG 2824
QY 1381 ATATCCTGACAGTTAATTGTTGACCACTATTATGACCGCCTGGAGCAAGAGACA 1440
Db 2825 ATATCCTGACAGTTAATTGTTGACCACTATTATGACCGCCTGGAGCAAGAGACA 2884
QY 1441 ACAATTTGGTCAACGTCCCTCTCTGCGTGATATGTGTGAACCTGGCTGTAATGTTT 1500
Db 2885 ACAATTTGGTCAACGTCCCTCTCTGCGTGATATGTGTGAACCTGGCTGTAATGTTT 2944
QY 1501 A 1501
Db 2945 A 2945
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RESULT 4
US-09-949-016-2805

; Sequence 2805; Application US/09949016
; Patent No. 6812339

; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.

; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307

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/ CURRENT APPLICATION NUMBER: US/09/949,016  
; CURRNT FILING DATE: 2000-04-14  
; PRIOR APPLICATION NUMBER: 60/241,755  
; PRIOR FILING DATE: 2000-10-20  
; PRIOR APPLICATION NUMBER: 60/237,768  
; PRIOR FILING DATE: 2000-10-03  
; PRIOR APPLICATION NUMBER: 60/231,498  
; PRIOR FILING DATE: 2000-09-08  
; NUMBER OF SEQ ID NOS: 207012  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO: 2805  
; LENGTH: 7070  
; TYPE: DNA  
; ORGANISM: Human  
US-09-949-016-2805  
  
Query Match 99.8%; Score 1497.8; DB 4; Length 7070;  
Best Local Similarity 99.9%; Pred. No. 0;  
Matches 1499; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
  
QY 1 AGACTCATATGATTACTGCAACAGTTCCTGACCTGGAAGAAAGTTTCTTGCTGCTTGA 60  
Db 1445 AAACCTATGATTACTGCAACAGTTCCTGACCTGGAAGAAAGTTTCTTGCTGCTTGA 1504  
QY 61 CAGAGCTGAACCAACTGCTCAATGTCTACAGAGTGTACCCGTAAGGAAGCTCCTAG 120  
Db 1505 CAGAGCTGAACCAACTGCTCAATGTCTACAGAGTGTACCCGTAAGGAAGCTCCTAG 1564  
QY 121 AAGACTCCAAGGAGTAAAGAGCTGATGAACCAATGGCAAGACCTCCAGAGTGAATTG 180  
Db 1565 AAGACTCCAAGGAGTAAAGAGCTGATGAACCAATGGCAAGACCTCCAGAGTGAATTG 1624  
QY 181 AAGCTCACACAGATGTTTATCACAACCTGATGAAGAACCCAAAGAAATCCTGAGATCCC 240  
Db 1625 AAGCTCACACAGATGTTTATCACAACCTGATGAAGAACCCAAAGAAATCCTGAGATCCC 1684  
QY 241 TGGAAAGTTCCGATGATGACGTCTGTTTCAAAAGCGTTTGAATACATGAACCTCAAGT 300  
Db 1685 TGGAAAGTTCCGATGATGACGTCTGTTTCAAAAGCGTTTGAATACATGAACCTCAAGT 1744  
QY 301 GAGTGAACCTCGAAAAAGTCTCTCAACATTAAGTCCCATTTGGAAGCCAGTTCTGACC 360  
Db 1745 GAGTGAACCTCGAAAAAGTCTCTCAACATTAAGTCCCATTTGGAAGCCAGTTCTGACC 1804  
QY 361 AGTGAAGCGTCTGCACTTTCTCTGACAGAACTTCTGTGTGCTACAGCTGAAGATG 420  
Db 1805 AGTGAAGCGTCTGCACTTTCTCTGACAGAACTTCTGTGTGCTACAGCTGAAGATG 1864  
QY 421 ATGAATTAAGCCGCGACACCTATTTGAGGCGCACTTTCCAGCACTTCAAGAGCAAGACG 480  
Db 1865 ATGAATTAAGCCGCGACACCTATTTGAGGCGCACTTTCCAGCACTTCAAGAGCAAGACG 1924  
QY 481 ATGTACATAGGCGCTTCAAGGGAATTGAAGAACTTAAGAACTGTATCATGAGTACTC 540  
Db 1925 ATGTACATAGGCGCTTCAAGGGAATTGAAGAACTTAAGAACTGTATCATGAGTACTC 1984  
QY 541 TTGAGACTGTACGAATATTTCTGACAGAGCAGCTTTTGAAGAGCTAGAGAACTCTACC 600  
Db 1985 TTGAGACTGTACGAATATTTCTGACAGAGCAGCTTTTGAAGAGCTAGAGAACTCTACC 2044  
QY 601 AGGAGCCAGAGAGCTGCTCTCTGAGAGAGAGCCCAAGATGTCACTCGGCTTCTACGAA 660  
Db 2045 AGGAGCCAGAGAGCTGCTCTCTGAGAGAGAGCCCAAGATGTCACTCGGCTTCTACGAA 2104  
QY 661 AGCAGGCTGAGAGGTCAATACCTGAGTGGAAAAATTGAACCTGCACTCCGCTGACTGGC 720  
Db 2105 AGCAGGCTGAGAGGTCAATACCTGAGTGGAAAAATTGAACCTGCACTCCGCTGACTGGC 2164  
QY 721 AGAGAAAAATAGATGAGACCTTGAAGAAGCTCCAGGAACCTCAAGAGGCCACGGATGAGC 780  
Db 2165 AGAGAAAAATAGATGAGACCTTGAAGAAGCTCCGGAACCTCAAGAGGCCACGGATGAGC 2224  
QY 781 TGGACCTCAAGCTGCGCCAAAGCTGAGGTGATCAAGGGATCCTGGCAGCCGCTGGCGATC 840
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Db 2225 TGGACCTCAAGTCGCGCCCAAGCTGAGGTGATCAAGGGATCCTGSCAGCCCGTGGCGCATC 2284
QY 841 TCCTCATTTGACTCTCTCCAGATCACCCTCGAGAAAGTCAAGGCATTTCGAGAGAAATTG 900
Db 2285 TCCTCATTTGACTCTCTCCAGATCACCCTCGAGAAAGTCAAGGCATTTCGAGAGAAATTG 2344
QY 901 CGCCTCTGAAAGAGAAAGTCAAGGCACCCTCAATGACCTTGCTCGCCAGCTTACCACTTTGG 960
Db 2345 CGCCTCTGAAAGAGAAAGTCAAGGCACCCTCAATGACCTTGCTCGCCAGCTTACCACTTTGG 2404
QY 961 GCATTCAAGCTCTCAACCGTATTAACCTCAGCAGCTTGGAAGACCTGAAACAGAGATGGAAGC 1020
Db 2405 GCATTCAAGCTCTCAACCGTATTAACCTCAGCAGCTTGGAAGACCTGAAACAGAGATGGAAGC 2464
QY 1021 TTCTGCAAGTGGCCGTCGAGGACCGAGTCAGGAGCTGCATGAAGCCGACAGGACTTTG 1080
Db 2465 TTCTGCAAGTGGCCGTCGAGGACCGAGTCAGGAGCTGCATGAAGCCGACAGGACTTTG 2524
QY 1081 GTCCAGCATCTCAGCACTTTCTTTCCAGCTGTCTCCAGGGTCCCTGGGAGAGAGCCATCT 1140
Db 2525 GTCCAGCATCTCAGCACTTTCTTTCCAGCTGTCTCCAGGGTCCCTGGGAGAGAGCCATCT 2584
QY 1141 CGCCAAACAAAGTGCCCTACTATATCAACCAAGAGACTCAAAACAATTGCTGGAGCCATC 1200
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QY 1201 CCAAAATGACAGAGCTCTACAGCTCTTACCTGAGCTGACCTGAATATGTCAGATTCTCAGCTT 1260
Db 2645 CCAAAATGACAGAGCTCTACAGCTCTTACCTGAGCTGACCTGAATATGTCAGATTCTCAGCTT 2704
QY 1261 ATAGAGCTGCCATGAAACTCCGAGAGCTGAGAGGCCCTTTGCTTGATCTCTTGAGCC 1320
Db 2705 ATAGAGCTGCCATGAAACTCCGAGAGCTGAGAGGCCCTTTGCTTGATCTCTTGAGCC 2764
QY 1321 TGTCAAGCTGCATGTGATGCTTGAGACCAAGACAACCTCAAGCAAAATGACCAAGCCCATGG 1380
Db 2765 TGTCAAGCTGCATGTGATGCTTGAGACCAAGACAACCTCAAGCAAAATGACCAAGCCCATGG 2824
QY 1381 ATATCCTGCAAGTTATTATTGTTTGACCACTATTATGACCGCTTGAGCAAGAGACACA 1440
Db 2825 ATATCCTGCAAGTTATTATTGTTTGACCACTATTATGACCGCTTGAGCAAGAGACACA 2884
QY 1441 ACAATTTGTCACAGTCCCTCTCTGCGTGAATATGTCTGAACTGGCTGTAATGTTT 1500
Db 2885 ACAATTTGTCACAGTCCCTCTCTGCGTGAATATGTCTGAACTGGCTGTAATGTTT 2944
QY 1501 A 1501
Db 2945 A 2945

RESULT 5
US-09-949-016-2806
: Sequence 2806, Application US/09949016
: Patent No. 6812339
: GENERAL INFORMATION:
: APPLICANT: VENTER, J. Craig et al.
: TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
: TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
: FILE REFERENCE: CL001307
: CURRENT APPLICATION NUMBER: US/09/949,016
: CURRENT FILING DATE: 2000-04-14
: PRIOR APPLICATION NUMBER: 60/241,755
: PRIOR FILING DATE: 2000-10-20
: PRIOR APPLICATION NUMBER: 60/237,768
: PRIOR FILING DATE: 2000-10-03
: PRIOR APPLICATION NUMBER: 60/231,498
: PRIOR FILING DATE: 2000-09-08
: NUMBER OF SEQ ID NOS: 207012
: SOFTWARE: FastSeq for Windows Version 4.0
: SEQ ID NO 2806
: LENGTH: 7070

TYPE: DNA
: ORGANISM: Human
US-09-949-016-2806
Query Match 99.8%; Score 1497.8; DB 4; Length 7070;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1499; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 1 AGACTCATAGATTACTGCAACAGTTCCTCCCTGGAAGCTGGAAGAAAGTTCTTGCTGCTTGA 60
Db 1445 AAACATAGATTACTGCAACAGTTCCTCCCTGGAAGCTGGAAGAAAGTTCTTGCTGCTTGA 1504
QY 61 CAGAGCTGAAACAACCTGCCAATGTCTTACAGAGATGCTACCCTAAGAAAGCTCCTAG 120
Db 1505 CAGAGCTGAAACAACCTGCCAATGTCTTACAGAGATGCTACCCTAAGAAAGCTCCTAG 1564
QY 121 AAGACTCCAAGGAGTAAAGAGCTGATGAACAATGGCAAGACCTTCAAGGTGAATTG 180
Db 1565 AAGACTCCAAGGAGTAAAGAGCTGATGAACAATGGCAAGACCTTCAAGGTGAATTG 1624
QY 181 AAGCTCACAGAGTGTATATCACAACCTGATGAACCAAGCAAAATCCTGAGATCCC 240
Db 1625 AAGCTCACAGAGTGTATATCACAACCTGATGAACCAAGCAAAATCCTGAGATCCC 1684
QY 241 TGAAGGTTCCGATGATGAGTCCCTGTTACAAAGACGTTTGATTAACATGAACCTTCAAGT 300
Db 1685 TGAAGGTTCCGATGATGAGTCCCTGTTACAAAGACGTTTGATTAACATGAACCTTCAAGT 1744
QY 301 GAGTGAACCTTCGAAAAAGTCTCTCAACATTAAGTCCCATTTGAAAGCCAGTTCTGACC 360
Db 1745 GAGTGAACCTTCGAAAAAGTCTCTCAACATTAAGTCCCATTTGAAAGCCAGTTCTGACC 1804
QY 361 AGTGAAGCGTCTGCACCTTCTCTGACAGAACTTCTGCTGCTACAGCTGAAAGATG 420
Db 1805 AGTGAAGCGTCTGCACCTTCTCTGACAGAACTTCTGCTGCTACAGCTGAAAGATG 1864
QY 421 ATGAATTAAGCGGACGAGCACCCTATTTGAGGCGACTTTCAGCAGTTCAAGACAGAACG 480
Db 1865 ATGAATTAAGCGGACGAGCACCCTATTTGAGGCGACTTTCAGCAGTTCAAGACAGAACG 1924
QY 481 ATGTACATAGGCGCTTCAAGAGGAAATGAACCTAAGAACTGTAATCATGAGTACTC 540
Db 1925 ATGTACATAGGCGCTTCAAGAGGAAATGAACCTAAGAACTGTAATCATGAGTACTC 1984
QY 541 TTGAGACTGTACGAATATTTCTGACAGAGCAGCTTTGGAAGGACTAGAGAACTTACC 600
Db 1985 TTGAGACTGTACGAATATTTCTGACAGAGCAGCTTTGGAAGGACTAGAGAACTTACC 2044
QY 601 AGAGCCCAAGAGAGCTGCTCTCTGAGAGAGAGCCCAAGATGTCACTGCGCTTCTAGAA 660
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QY 661 AGAGGCTGAGAGAGTCAATACCTGAGTGGAAAAATTGAACCTGCACTCCGCTGACTGGC 720
Db 2105 AGAGGCTGAGAGAGTCAATACCTGAGTGGAAAAATTGAACCTGCACTCCGCTGACTGGC 2164
QY 721 AGAGAAAAATAGATGAGAGCCCTTGAAGAGCTCCAGAACTTCAAGAGGCCACGGATGAGC 780
Db 2165 AGAGAAAAATAGATGAGAGCCCTTGAAGAGCTCCGGAACCTTCAAGAGGCCACGGATGAGC 2224
QY 781 TGACCTCAAGCTGCGCCCAAGCTGAGGTATCAAGGATCTTGCGAGCCGCTGGCGATC 840
Db 2225 TGACCTCAAGCTGCGCCCAAGCTGAGGTATCAAGGATCTTGCGAGCCGCTGGCGATC 2284
QY 841 TCCTCATTTGACTCTCTCCAGATCACCCTCGAGAAAGTCAAGGCATTTCAGAGAGAAATTG 900
Db 2285 TCCTCATTTGACTCTCTCCAGATCACCCTCGAGAAAGTCAAGGCATTTCAGAGAGAAATTG 2344
QY 901 CGCCTCTGAAAGAGAAAGTGAAGCCAGTCAATGACCTTGCTGCGCAGCTTACCACTTTGG 960
Db 2345 CGCCTCTGAAAGAGAAAGTGAAGCCAGTCAATGACCTTGCTGCGCAGCTTACCACTTTGG 2404
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QY 1081 GTCCAGCATCTCAGCACTTCTTCCAGCTGTGTCCAGGGTCCCTGGAGAGAGAGCCATCT 1140
Db 2525 GTCCAGCATCTCAGCACTTCTTCCAGCTGTGTCCAGGGTCCCTGGAGAGAGCCATCT 2584
QY 1141 CGCCAAACAAGTGCCCTACTATATCAACCAAGAGACTCAAACTTGCTGGAGCCATC 1200
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Db 2645 CCAAAATGACAGAGCTCTACCACTCTTTAGCTGACCTGAATATGTCAAGTTCTGAGCTT 2704
QY 1261 ATAGGACTGCCATGAAGCTCCGAAGCTGACAGAGGCCCTTGCTTGATCTTGAGCC 1320
Db 2705 ATAGGACTGCCATGAAGCTCCGAAGCTGACAGAGGCCCTTGCTTGATCTTGAGCC 2764
QY 1321 TGTGAGCTGCATGTGATGCTTGAGACCAAGCAAACTCAAGCAAAATGACAGGCCATGG 1380
Db 2765 TGTGAGCTGCATGTGATGCTTGAGACCAAGCAAACTCAAGCAAAATGACAGGCCATGG 2824
QY 1381 ATATCTGACAGATTATTAATGTTTGACCACTATTATGACCGCCCTGAGACAGACACA 1440
Db 2825 ATATCTGACAGATTATTAATGTTTGACCACTATTATGACCGCCCTGAGACAGACACA 2884
QY 1441 ACAATTTGGTCAACGTCCTCTCTGCGTGATGTGTGAACTGGCTGCAATGTTT 1500
Db 2885 ACAATTTGGTCAACGTCCTCTCTGCGTGATGTGTGAACTGGCTGCAATGTTT 2944
QY 1501 A 1501
Db 2945 A 2945

RESULT 6
US-09-949-016-2807
; Sequence 2807, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2807
; LENGTH: 7070
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-2807

Query Match 99.8%; Score 1497.8; DB 4; Length 7070;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1499; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 AGACTCATAGATTACTGCAACAGTTCCCCCTGAGCTGCAAAAGTTCTTGCTGGCTTA 60
Db 1445 AAACCTCATAGATTACTGCAACAGTTCCCCCTGAGCTGCAAAAGTTCTTGCTGGCTTA 1504

QY 61 CAGAACTGAAACAACCTGCCAATGTCCTACAGAGTGTACCCTGAAGAAAGGCTCCTAG 120
Db 1505 CAGAACTGAAACAACCTGCCAATGTCCTACAGAGTGTACCCTGAAGAAAGGCTCCTAG 1564
QY 121 AAGACTCCAAGGAGTAAAGAGCTGATGAAACAATGSCAAGACTCCAAGTGAATTTG 180
Db 1565 AAGACTCCAAGGAGTAAAGAGCTGATGAAACAATGSCAAGACTCCAAGTGAATTTG 1624
QY 181 AAGCTCACACAGATGTTTATCACAACTGGATGAAAAACAGCAAAAAATCCTGAGATCCC 240
Db 1625 AAGCTCACACAGATGTTTATCACAACTGGATGAAAAACAGCAAAAAATCCTGAGATCCC 1684
QY 241 TGAAGGTTCCGATGATGACGTCCTGTTTACAAGAAGCTTTGATTAACATGAATCTCAAGT 300
Db 1685 TGAAGGTTCCGATGATGACGTCCTGTTTACAAGAAGCTTTGATTAACATGAATCTCAAGT 1744
QY 301 GGAGTGAACCTCGGAAAAAGTCTCTCAACATTAGTCCCATTTGGAAGCCAGTTCTGACC 360
Db 1745 GGAGTGAACCTCGGAAAAAGTCTCTCAACATTAGTCCCATTTGGAAGCCAGTTCTGACC 1804
QY 361 AGTGAAGCGTCTGCACCTTTCTCTGACAGAACTTCTGTGTGGCTACAGCTGAAAGATG 420
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QY 421 ATGAATTAAGCCGGCAGGCACTATTGAGGCGACTTTCAGCAGTTTCAAGACAGAAAG 480
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QY 481 ATGTACATAGGCGCTTCAAGAGGGAATTGAAAACTAAAGAACTGTATCATGAGTACTC 540
Db 1925 ATGTACATAGGCGCTTCAAGAGGGAATTGAAAACTAAAGAACTGTATCATGAGTACTC 1984
QY 541 TTGGAAGCTGACGAATATTTCTGACAGAGCAGCTTTGGAAGACTAGAACTCTACC 600
Db 1985 TTGGAAGCTGACGAATATTTCTGACAGAGCAGCTTTGGAAGACTAGAACTCTACC 2044
QY 601 AGGAGCCCAAGAGAGCTGCTCTCTGAGAGAGAGCCCAAGATGTCACTCGGCTTCTACGAA 660
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QY 661 AGCAGGCTGAGGAGGTCAATACTGAGTGGAAAAATTGAACCTGCACTCCGCTGACTGGC 720
Db 2105 AGCAGGCTGAGGAGGTCAATACTGAGTGGAAAAATTGAACCTGCACTCCGCTGACTGGC 2164
QY 721 AGAGAAAAATAGATGAGACCCCTTGAAGACTCCAGAACTTCAAGAGGCCACGATGAGC 780
Db 2165 AGAGAAAAATAGATGAGACCCCTTGAAGACTCCGGAAGCTTCAAGAGGCCACGATGAGC 2224
QY 781 TGGACCTCAAGCTGCGCCAAAGCTGAGTGAATCAAGGATCCTGGCAGCCCGTGGCGATC 840
Db 2225 TGGACCTCAAGCTGCGCCAAAGCTGAGTGAATCAAGGATCCTGGCAGCCCGTGGCGATC 2284
QY 841 TCCTCATTTGACTCTCTCCAAGATCACTCGAAGAAAGTCAAGGCACTTCGAGGAGAAATTG 900
Db 2285 TCCTCATTTGACTCTCTCCAAGATCACTCGAAGAAAGTCAAGGCACTTCGAGGAGAAATTG 2344
QY 901 CGCCTCTGAAGAAGAACGTGAGCCGCTCAATGACCTTGTGCGCAAGCTTACCACTTTGG 960
Db 2345 CGCCTCTGAAGAAGAACGTGAGCCGCTCAATGACCTTGTGCGCAAGCTTACCACTTTGG 2404
QY 961 GCATTGAGCTCTCAACGTATTAACCTCAGCACTCTGGAAGACCTGAAACACAGATGGAAGC 1020
Db 2405 GCATTGAGCTCTCAACGTATTAACCTCAGCACTCTGGAAGACCTGAAACACAGATGGAAGC 2464
QY 1021 TTCTGAGGTGGCCGTCGAGGACCGAGTCAAGGCAAGCTGCAAGCCACAGAGGACTTTG 1080
Db 2465 TTCTGAGGTGGCCGTCGAGGACCGAGTCAAGGCAAGCTGCAAGCCACAGAGGACTTTG 2524
QY 1081 GTCCAGCATCTCAGCACTTCTTTCCAGCTGTGTCCAGGGTCCCTGGAGAGAGCCATCT 1140
Db 2525 GTCCAGCATCTCAGCACTTCTTTCCAGCTGTGTCCAGGGTCCCTGGAGAGAGCCATCT 2584
QY 1141 CGCCAAACAAGTGCCCTACTATATCAACCAAGAGACTCAAAACAACCTTGCTGGAGCATT 1200

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Db      2585 CGCCAAACAAGTGCCCTACTATATCAACGAGACTCAACAACACTTGTGGAGCATC 2644
Qy      1201 CCAAAATGACAGAGCTCTACCAAGTCTTTAGCTGAACCTGAATAATGTCAGATTCTCAGCTT 1260
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Qy      1261 ATAGGACTGCCATGAAACTCCGAAGACTGCAAGAGGCCCTTGTGCTTGATCTCTGAGCC 1320
Db      2705 ATAGGACTGCCATGAAACTCCGAAGACTGCAAGAGGCCCTTGTGCTTGATCTCTGAGCC 2764
Qy      1321 TGTCAAGTGCATGTGATGCGCTTGGACCAACAACCTCAAGCAAAAATGACCAAGCCCATGG 1380
Db      2765 TGTCAAGTGCATGTGATGCGCTTGGACCAACAACCTCAAGCAAAAATGACCAAGCCCATGG 2824
Qy      1381 ATATCCTGCAGATTATTATTTGACCACTATTATGACCGCGCTGGACGAAGACACA 1440
Db      2825 ATATCCTGCAGATTATTATTTGACCACTATTATGACCGCGCTGGACGAAGACACA 2884
Qy      1441 ACAATTTGGTCAACGTCCTCTCTGCGTGCATATGTGTCTGAACCTGGCTGTAATGTTT 1500
Db      2885 ACAATTTGGTCAACGTCCTCTCTGCGTGCATATGTGTCTGAACCTGGCTGTAATGTTT 2944
Qy      1501 A 1501
Db      2945 A 2945
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RESULT 7
US-09-949-016-2808
; Sequence 2808, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: CLO01307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for windows Version 4.0
; SEQ ID NO 2808
; LENGTH: 7070
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-2808
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Query Match      99.8%; Score 1497.8; DB 4; Length 7070;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1499; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy      1 AGACTCATAGATTACTGCAACAGTTCCTCCCTGACCTGAAAAAGTTCTTGCTGCTTA 60
Db      1445 AAACCTCATAGATTACTGCAACAGTTCCTCCCTGACCTGAAAAAGTTCTTGCTGCTTA 1504
Qy      61 CAGAAGCTGAAACAACCTGCAATGTCTCTACAGATGCTACCCGTAAGAAAGGCTCCTAG 120
Db      1505 CAGAAGCTGAAACAACCTGCAATGTCTCTACAGATGCTACCCGTAAGAAAGGCTCCTAG 1564
Qy      121 AAGACTCCAAGGAGTAAAGAGCTGATGAAACAATGGCAAGACCTCCAAGGTGAATTTG 180
Db      1565 AAGACTCCAAGGAGTAAAGAGCTGATGAAACAATGGCAAGACCTCCAAGGTGAATTTG 1624
Qy      181 AAGCTCACACAGATGTTTATCAACAACCTGATGAAACAAGCCAAAAAATCCTGAGATCCC 240
Db      1625 AAGCTCACACAGATGTTTATCAACAACCTGATGAAACAAGCCAAAAAATCCTGAGATCCC 1684
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Qy      241 TGAAGGTTCCGATGATGCAAGTCCCTGTTTACAAAGACGTTTGGATTAACATGAACCTCAAGT 300
Db      1685 TGAAGGTTCCGATGATGCAAGTCCCTGTTTACAAAGACGTTTGGATTAACATGAACCTCAAGT 1744
Qy      301 GGAGTGAACCTTGGAAAAAGTCTCTCAACATTAGGTCCCATTTGGAAAGCCAGTCTTGACC 360
Db      1745 GGAGTGAACCTTGGAAAAAGTCTCTCAACATTAGGTCCCATTTGGAAAGCCAGTCTTGACC 1804
Qy      361 AGTGAAGGCTCTGCACCTTTCTCTGACAGAACTTCTGTGTGTGCTACAGCTGAAGATG 420
Db      1805 AGTGAAGGCTCTGCACCTTTCTCTGACAGAACTTCTGTGTGTGCTACAGCTGAAGATG 1864
Qy      421 ATGAATTAAACCCGACAGGACCTTATGGAGGCGACTTTCACGACTTCAGAAAGCAAGACG 480
Db      1865 ATGAATTAAACCCGACAGGACCTTATGGAGGCGACTTTCACGACTTCAGAAAGCAAGACG 1924
Qy      481 ATGTACATAGGGCTTCAAGAGGGGAATTGAAAACTTAAAGAACCTGTAAATCATGAGTACTC 540
Db      1925 ATGTACATAGGGCTTCAAGAGGGGAATTGAAAACTTAAAGAACCTGTAAATCATGAGTACTC 1984
Qy      541 TTGAGACTGTACGAATATTCTTGACAGAGCAGCCTTTGGAAGACTAGAAAACTCTACC 600
Db      1985 TTGAGACTGTACGAATATTCTTGACAGAGCAGCCTTTGGAAGACTAGAAAACTCTACC 2044
Qy      601 AGAGCCCAAGAGAGCTGCGCTCTGAGAGAGAGCCCAAGATGTCACTCGGCTTCTACGAA 660
Db      2045 AGAGCCCAAGAGAGCTGCGCTCTGAGAGAGAGCCCAAGATGTCACTCGGCTTCTACGAA 2104
Qy      661 AGCAGGCTGAGAGAGTCAATACCTGATGGGAAAAATTGAACCTGCACTCCGCTGACTGGC 720
Db      2105 AGCAGGCTGAGAGAGTCAATACCTGATGGGAAAAATTGAACCTGCACTCCGCTGACTGGC 2164
Qy      721 AGAGAAAAATAGATGAGACCCCTTGAAAGACTCCAGGAACCTTCAAGAGGCCACGGATGAGC 780
Db      2165 AGAGAAAAATAGATGAGACCCCTTGAAAGACTCCGGAACCTTCAAGAGGCCACGGATGAGC 2224
Qy      781 TGGACCTCAAGCTGCGCCAAAGCTGAGGTGATCAAGGATCTTGCGACGCCGTGGCGATC 840
Db      2225 TGGACCTCAAGCTGCGCCAAAGCTGAGGTGATCAAGGATCTTGCGACGCCGTGGCGATC 2284
Qy      841 TCCTCATTTGACTCTCTCCAAGATCACTCGAGAAAGTCAAGGCACTTGAGGAGAAATTG 900
Db      2285 TCCTCATTTGACTCTCTCCAAGATCACTCGAGAAAGTCAAGGCACTTGAGGAGAAATTG 2344
Qy      901 CGCCTTGAAGAAGAACGTCGAGCCAGTCAATGACCTTGCTGCGACCTTACCACTTTGG 960
Db      2345 CGCCTTGAAGAAGAACGTCGAGCCAGTCAATGACCTTGCTGCGACCTTACCACTTTGG 2404
Qy      961 GCATTACGCTCTCAACCGTATTAACCTTCAGCACTCTGGAAGACCTGGAACACCAAGTGAAGC 1020
Db      2405 GCATTACGCTCTCAACCGTATTAACCTTCAGCACTCTGGAAGACCTGGAACACCAAGTGAAGC 2464
Qy      1021 TTCTGACGTGGCCGTCGAGGACCGAGTCAGGCAAGCTGCATGAAGGCCACAGGCACTTTG 1080
Db      2465 TTCTGACGTGGCCGTCGAGGACCGAGTCAGGCAAGCTGCATGAAGGCCACAGGCACTTTG 2524
Qy      1081 GTCCAGCATCTCAGCACTTTCTTTCCAGTCTGTCCAGAGGTCCCTGGGAGAGAGCCATCT 1140
Db      2525 GTCCAGCATCTCAGCACTTTCTTTCCAGTCTGTCCAGAGGTCCCTGGGAGAGAGCCATCT 2584
Qy      1141 CGCCAAACAAGTGCCCTACTATATATCAACAAGAGACTCAAAACAACCTGTGGGACCATC 1200
Db      2585 CGCCAAACAAGTGCCCTACTATATATCAACAAGAGACTCAAAACAACCTGTGGGACCATC 2644
Qy      1201 CCAAAATGACAGAGCTCTACCAAGTCTTTAGCTGACCTGAATAATGTCAGATTCTCAGCTT 1260
Db      2645 CCAAAATGACAGAGCTCTACCAAGTCTTTAGCTGACCTGAATAATGTCAGATTCTCAGCTT 2704
Qy      1261 ATAGACTGCTATGAAACTCCGAAGACTGCAAGAGGCCCTTGTGCTTGGAATCTCTGAGCC 1320
Db      2705 ATAGACTGCTATGAAACTCCGAAGACTGCAAGAGGCCCTTGTGCTTGGAATCTCTGAGCC 2764
Qy      1321 TGTCAAGTGCATGTGATGCGCTTGGACCAACAACCTCAAGCAAAAATGACCAAGCCCATGG 1380
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Db      2765 TGTCAAGCTGATGTGATGCCCTTGACCAACAACCTCAAGCAAAATGACCAAGCCCATGG 2824
QY      1381 ATATCCCTGAGATATATATGTTTGAACCACTATTATGACCGCCTGGAGCAAGAGACA 1440
Db      2825 ATATCCCTGAGATATATATGTTTGAACCACTATTATGACCGCCTGGAGCAAGAGACA 2884
QY      1441 ACAATTGGTCAACGTCCTCTCTGCGTGGATATGTGTGAACCTGGCTGTGAATGTTT 1500
Db      2885 ACAATTGGTCAACGTCCTCTCTGCGTGGATATGTGTGAACCTGGCTGTGAATGTTT 2944
QY      1501 A 1501
Db      2945 A 2945

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RESULT 8
US-09-949-016-2809
; Sequence 2809, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949, 016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241, 755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237, 768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231, 498
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2809
; LENGTH: 7070
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-2809

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Query Match 99.8%; Score 1497.8; DB 4; Length 7070;
 Best Local Similarity 99.9%; Pred. No. 0;
 Matches 1499; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

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QY      1 AGACTCATAGATTAAGTCAACAGAGTCCCTGGAACCTGAAAAAGTTCTTGCTGCTTA 60
Db      1445 AAACCTCATAGATTAAGTCAACAGAGTCCCTGGAACCTGAAAAAGTTCTTGCTGCTTA 1504
QY      61 CAGAGCTGAAACAACCTGCAATGTCTTACAGAGTGTACCCCGTAAGAAAGGCTCCTAG 120
Db      1505 CAGAGCTGAAACAACCTGCAATGTCTTACAGAGTGTACCCCGTAAGAAAGGCTCCTAG 1564
QY      121 AAGACTCCAAGGAGTAAAGAGCTGATGAAACAATGGAAGACTCCCAAGTGAATTG 180
Db      1565 AAGACTCCAAGGAGTAAAGAGCTGATGAAACAATGGAAGACTCCCAAGTGAATTG 1624
QY      181 AAGCTCACACAGATGTTTATCAACAACCTGGATGAAACAAGCAAAATCTCTGAGATCCC 240
Db      1625 AAGCTCACACAGATGTTTATCAACAACCTGGATGAAACAAGCAAAATCTCTGAGATCCC 1684
QY      241 TGAAGGTTCCGATGATGACAGTCCCTGTTACAAGAAGTTTGAATTAACATGAACCTTCAAGT 300
Db      1685 TGAAGGTTCCGATGATGACAGTCCCTGTTACAAGAAGTTTGAATTAACATGAACCTTCAAGT 1744
QY      301 GGAAGTGAAGTTCGAAAAAGTCTTCAACATTAAGTCCCAATTTGGAAGCCAGTTCTGACC 360
Db      1745 GGAAGTGAAGTTCGAAAAAGTCTTCAACATTAAGTCCCAATTTGGAAGCCAGTTCTGACC 1804
QY      361 AGTGAAGAGCTGTGCAACCTTCTCTGCAAGAACTTCTGTGTGCTACAGCTGAAGATG 420
Db      1805 AGTGAAGAGCTGTGCAACCTTCTCTGCAAGAACTTCTGTGTGCTACAGCTGAAGATG 1864

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QY      421 ATGAATTAAGCCGAGGACCACTATTGAGCGCACTTCCAGCAGTTCAAGAGCAGAACG 480
Db      1865 ATGAATTAAGCCGAGGACCACTATTGAGCGCACTTCCAGCAGTTCAAGAGCAGAACG 1924
QY      481 ATGTACATAGGCGCTTCAAGAGGGAATGAAAACTAAAGAACTGTATCATGAGTACTC 540
Db      1925 ATGTACATAGGCGCTTCAAGAGGGAATGAAAACTAAAGAACTGTATCATGAGTACTC 1984
QY      541 TTGAGACTGTACGAATATTTCTGACAGAGCAGCCTTTGGAAGGACTAGAGAACTCTACC 600
Db      1985 TTGAGACTGTACGAATATTTCTGACAGAGCAGCCTTTGGAAGGACTAGAGAACTCTACC 2044
QY      601 AGAGCCCAAGAGAGCTGCGCTCTGAGAGAGAGCCCAAGATGCACTCGGCTTCTACGA 660
Db      2045 AGAGCCCAAGAGAGCTGCGCTCTGAGAGAGAGCCCAAGATGCACTCGGCTTCTACGA 2104
QY      661 AGCAGCTGAGAGAGTCAATATCTGAGTGGGAAAAATTGAACCTGCACTCCGCTGACTGGC 720
Db      2105 AGCAGCTGAGAGAGTCAATATCTGAGTGGGAAAAATTGAACCTGCACTCCGCTGACTGGC 2164
QY      721 AGAGAAAAATAGATGAGAGCCCTTGAAGAAGCTCCAGGAACCTTCAAGAGCCAGGATGAGC 780
Db      2165 AGAGAAAAATAGATGAGAGCCCTTGAAGAAGCTCCGGAACCTTCAAGAGCCAGGATGAGC 2224
QY      781 TGAACCTCAAGCTGCGCCCAAGCTGAGTGTATCAAGGAGTCTGGACCCCGTGGCGATC 840
Db      2225 TGAACCTCAAGCTGCGCCCAAGCTGAGTGTATCAAGGAGTCTGGACCCCGTGGCGATC 2284
QY      841 TCCTCATTTGACTCTCTCCAAAGATCACTCGAGAAAGTCAAGGCACTTGAAGAGAAATTG 900
Db      2285 TCCTCATTTGACTCTCTCCAAAGATCACTCGAGAAAGTCAAGGCACTTGAAGAGAAATTG 2344
QY      901 CGCCTCTGAAAGAGAAAGTGAAGCCAGCTCAATGACCTGCTCGCAGCTTACCACTTTGG 960
Db      2345 CGCCTCTGAAAGAGAAAGTGAAGCCAGCTCAATGACCTGCTCGCAGCTTACCACTTTGG 2404
QY      961 GCATTGAGCTCTCAACCGTATTAACCTCAGCACTCTGGAAGACCTGAACACGATGGAAGC 1020
Db      2405 GCATTGAGCTCTCAACCGTATTAACCTCAGCACTCTGGAAGACCTGAACACGATGGAAGC 2464
QY      1021 TTCTGAGAGTGGCCGTCGAGGACCGAGTCAAGGAGCTGCATGAAGCCACAGGACTTTG 1080
Db      2465 TTCTGAGAGTGGCCGTCGAGGACCGAGTCAAGGAGCTGCATGAAGCCACAGGACTTTG 2524
QY      1081 GTCCAGCATCTCAGCACTTTCTTCCACGCTGTGCCAAGGCTCCCTGGAGAGAGCCATCT 1140
Db      2525 GTCCAGCATCTCAGCACTTTCTTCCACGCTGTGCCAAGGCTCCCTGGAGAGAGCCATCT 2584
QY      1141 CGCCAAAACAAAGTGCCTTACTATATCAACACGAGACTCAAAACAATTGCTGGAGCATC 1200
Db      2585 CGCCAAAACAAAGTGCCTTACTATATCAACACGAGACTCAAAACAATTGCTGGAGCATC 2644
QY      1201 CCAAAATGACAGAGCTCTACCAAGTCTTTAGCTGACCTGAATATGTGAGATTCTCAGCTT 1260
Db      2645 CCAAAATGACAGAGCTCTACCAAGTCTTTAGCTGACCTGAATATGTGAGATTCTCAGCTT 2704
QY      1261 ATAGGACTGCGCATGAAACTCCGAAGACTGAGAAAGGCCCTTTGCTTGGATCTCTTGAGCC 1320
Db      2705 ATAGGACTGCGCATGAAACTCCGAAGACTGAGAAAGGCCCTTTGCTTGGATCTCTTGAGCC 2764
QY      1321 TGTCAAGCTGATGTGATGCTTGGACCAAGCAAACTCAAGCAAAATGACAGCCCATGG 1380
Db      2765 TGTCAAGCTGATGTGATGCTTGGACCAAGCAAACTCAAGCAAAATGACAGCCCATGG 2824
QY      1381 ATATCTGCAAGATTAATTAATGTTTGAACCACTATTATGACCGCCTGGAAGCAAGAGACA 1440
Db      2825 ATATCTGCAAGATTAATTAATGTTTGAACCACTATTATGACCGCCTGGAAGCAAGAGACA 2884
QY      1441 ACAATTGGTCAACGTCCTCTCTGCGTGGATATGTGTGAACCTGGCTGTGAATGTTT 1500
Db      2885 ACAATTGGTCAACGTCCTCTCTGCGTGGATATGTGTGAACCTGGCTGTGAATGTTT 2944
QY      1501 A 1501

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Db 2945 A 2945

RESULT 9

US-09-949-016-2810
; Sequence 2810, Application us/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2810
; LENGTH: 7070
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-2810

Query Match 99.8%; Score 1497.8; DB 4; Length 7070;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1499; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 AGACTCATAGATTACTGCAACAGATTCCCGCTGGACCTGGAAAAGTTCTTGCCCTGGCTTA 60
Db 1445 AAACCTCATAGATTACTGCAACAGATTCCCGCTGGACCTGGAAAAGTTCTTGCCCTGGCTTA 1504
QY 61 CAGAACTGAAAACAACCTGCCAATGTCCTACAGAGATGCTACCCGTAAGAAAAGGCTCCTAG 120
Db 1505 CAGAACTGAAAACAACCTGCCAATGTCCTACAGAGATGCTACCCGTAAGAAAAGGCTCCTAG 1564
QY 121 AAGACTCCAAAGGAGTAAAGAGCTGATGAAACAATGGCAAGACCTCCAAAGGTGAATTG 180
Db 1565 AAGACTCCAAAGGAGTAAAGAGCTGATGAAACAATGGCAAGACCTCCAAAGGTGAATTG 1624
QY 181 AAGCTCACAGATGTTTATCACAACCTGGATGAAAACAGCCAAAATCCTGAGATCCC 240
Db 1625 AAGCTCACAGATGTTTATCACAACCTGGATGAAAACAGCCAAAATCCTGAGATCCC 1684
QY 241 TGAAGGTTCCGATGATGAGTCCCTGTTACAAGACGTTTGATACATGAATTCAGT 300
Db 1685 TGAAGGTTCCGATGATGAGTCCCTGTTACAAGACGTTTGATACATGAATTCAGT 1744
QY 301 GGAAGTAACTTCGGAAGAAAGTCTCTCAACATTTAGTCCCATTTGGAAGCCAGTTCTGACC 360
Db 1745 GGAAGTAACTTCGGAAGAAAGTCTCTCAACATTTAGTCCCATTTGGAAGCCAGTTCTGACC 1804
QY 361 AGTGAAGGCTCTGCACCTTCTCTGACAGAACTTGTGTGGCTACACAGCTGAAGATG 420
Db 1805 AGTGAAGGCTCTGCACCTTCTCTGACAGAACTTGTGTGGCTACACAGCTGAAGATG 1864
QY 421 ATGAATTAAAGCCGGCAGGACACCTATTGGAGCGACTTTCAGCAGTTGAGAAAGCAGAACG 480
Db 1865 ATGAATTAAAGCCGGCAGGACACCTATTGGAGCGACTTTCAGCAGTTGAGAAAGCAGAACG 1924
QY 481 ATGTACATAGGGCCTTCAAGAGGGAATTGAAAACCTAAAGAACCTGTAATCATGAGTACTC 540
Db 1925 ATGTACATAGGGCCTTCAAGAGGGAATTGAAAACCTAAAGAACCTGTAATCATGAGTACTC 1984
QY 541 TTGAGACTGTACGAATATTTCTGACAGAGACGCTTTGGAAGAGCTAGAGAAACTCTACC 600
Db 1985 TTGAGACTGTACGAATATTTCTGACAGAGACGCTTTGGAAGAGCTAGAGAAACTCTACC 2044

QY 601 AGAGCCCAAGAGAGCTGCTCTCTGAGAGAGAGCCCAAGATGTCACCTGCTGCTTCTACGAA 660
Db 2045 AGAGCCCAAGAGAGCTGCTCTCTGAGAGAGAGCCCAAGATGTCACCTGCTGCTTCTACGAA 2104
QY 661 AGCAGCTGAGAGAGTCAATACTGAGTGGAAAAATTGAACCTGCACCTCGCTGACTGGC 720
Db 2105 AGCAGCTGAGAGAGTCAATACTGAGTGGAAAAATTGAACCTGCACCTCGCTGACTGGC 2164
QY 721 AGAGAAAAATGATGAGACCCCTTGAAGAATCCAGAACTTCAAGAGCCAGGATGAGC 780
Db 2165 AGAGAAAAATGATGAGACCCCTTGAAGAATCCAGAACTTCAAGAGCCAGGATGAGC 2224
QY 781 TGAACCTCAAGCTGCCCAAGCTGAGGTGATCAAGGGATCCTGGCAGCCGTGGCGATC 840
Db 2225 TGAACCTCAAGCTGCCCAAGCTGAGGTGATCAAGGGATCCTGGCAGCCGTGGCGATC 2284
QY 841 TCCTCATTTGACTCTCTCCAAAGATCAGCTGAGAGAAAGTCAAGGACCTTGGAGAGAAATTG 900
Db 2285 TCCTCATTTGACTCTCTCCAAAGATCAGCTGAGAGAAAGTCAAGGACCTTGGAGAGAAATTG 2344
QY 901 CGCCTCTGAAGAGAAAGTGAAGCCAGCTCAATGACCTTGCTGCCAGCTTACCACTTTGG 960
Db 2345 CGCCTCTGAAGAGAAAGTGAAGCCAGCTCAATGACCTTGCTGCCAGCTTACCACTTTGG 2404
QY 961 GCATTGAGCTCTCAACCGTATTAACCTGAGCACTCTGGAAGACCTGAAACACAGATGGAAGC 1020
Db 2405 GCATTGAGCTCTCAACCGTATTAACCTGAGCACTCTGGAAGACCTGAAACACAGATGGAAGC 2464
QY 1021 TTCTGAGGTGCGCCCTCGAGGACCGAGTCAAGCAGCTGCATGAAAGCCACAGGACTTTG 1080
Db 2465 TTCTGAGGTGCGCCCTCGAGGACCGAGTCAAGCAGCTGCATGAAAGCCACAGGACTTTG 2524
QY 1081 GTCCAGCATCTCAGCACTTCTTTCCAGCTGTGCCAGGGTCCCTGGAGAGAGACCATCT 1140
Db 2525 GTCCAGCATCTCAGCACTTCTTTCCAGCTGTGCCAGGGTCCCTGGAGAGAGACCATCT 2584
QY 1141 CGCCAAACAAAGTGCCCTACTATATCAACCAAGAGACTCAAACTGCTGGGACCATC 1200
Db 2585 CGCCAAACAAAGTGCCCTACTATATCAACCAAGAGACTCAAACTGCTGGGACCATC 2644
QY 1201 CCAAAATGACAGAGCTCTACCAAGTCTTAGCTGACCTGAATAATGTCAGATTCTCAGCTT 1260
Db 2645 CCAAAATGACAGAGCTCTACCAAGTCTTAGCTGACCTGAATAATGTCAGATTCTCAGCTT 2704
QY 1261 ATAGACTGECATGAAAACCTCCGAAGACTGCAGAAAGGCCCTTGTGATCTCTTGAGCC 1320
Db 2705 ATAGACTGECATGAAAACCTCCGAAGACTGCAGAAAGGCCCTTGTGATCTCTTGAGCC 2764
QY 1321 TGTGAGCTGATGATGCTTGGACCAAGCAAACTCAAGCAAAATGACCAAGCCCATGG 1380
Db 2765 TGTGAGCTGATGATGCTTGGACCAAGCAAACTCAAGCAAAATGACCAAGCCCATGG 2824
QY 1381 ATATCTGAGATTTAATTGTTTGACCACTATTATGACCGCTGGAGCAAGAGCACA 1440
Db 2825 ATATCTGAGATTTAATTGTTTGACCACTATTATGACCGCTGGAGCAAGAGCACA 2884
QY 1441 ACAATTTGGTCAAGCTCCCTCTGCGGTGATATGTCTGAACTGGCTGTAATGTTT 1500
Db 2885 ACAATTTGGTCAAGCTCCCTCTGCGGTGATATGTCTGAACTGGCTGTAATGTTT 2944
QY 1501 A 1501
Db 2945 A 2945

RESULT 10

US-09-949-016-2811
; Sequence 2811, Application us/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF

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; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2811
; LENGTH: 7070
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-2811
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Query Match      99.8%; Score 1497.8; DB 4; Length 7070;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1499; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
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QY      1 AGACTCATAGATTACTGCAACAGTTCCTCCCTGGACCTGGAAAAGTTTCTTGCCCTGCTTA 60
Db      1445 AAATCATAGATTACTGCAACAGTTCCTCCCTGGACCTGGAAAAGTTTCTTGCCCTGCTTA 1504
QY      61 CAGAAGCTGAAACAACCTGCCAATGCTCTACAGAGTGTACCCGTAAGGAAAGGCTCTAG 120
Db      1505 CAGAAGCTGAAACAACCTGCCAATGCTCTACAGAGTGTACCCGTAAGGAAAGGCTCTAG 1564
QY      121 AAGACTCCAGGGAGTAAAGAGCTGATGAAACAATGGCAAGACCTCCAAAGGTGAATTG 180
Db      1565 AAGACTCCAGGGAGTAAAGAGCTGATGAAACAATGGCAAGACCTCCAAAGGTGAATTG 1624
QY      181 AAGCTCACACAGATGTTTATCACAACCTGGATGAAACAAGCCAAAATCCTGAGATCCC 240
Db      1625 AAGCTCACACAGATGTTTATCACAACCTGGATGAAACAAGCCAAAATCCTGAGATCCC 1684
QY      241 TGGAAAGTTCGGATGATGAGTCTCTGTACAAAGAGCTTTGGATAACATGAATTCAAGT 300
Db      1685 TGGAAAGTTCGGATGATGAGTCTCTGTACAAAGAGCTTTGGATAACATGAATTCAAGT 1744
QY      301 GGAGTGAACCTCGGAAAAAGTCTCTCAACATTAAGTCCCATTTGGAAAGCCAGTTCTGACC 360
Db      1745 GGAGTGAACCTCGGAAAAAGTCTCTCAACATTAAGTCCCATTTGGAAAGCCAGTTCTGACC 1804
QY      361 AGTGAAGCGTCTGCACTTTCTCTGACAGAACTTCTGTGTGCTACAGCTGAAAAGATG 420
Db      1805 AGTGAAGCGTCTGCACTTTCTCTGACAGAACTTCTGTGTGCTACAGCTGAAAAGATG 1864
QY      421 ATGAATTAAGCCGCGACGACCTATTTGGAGCGCACTTCCAGCAGTTCAAGACAGAACG 480
Db      1865 ATGAATTAAGCCGCGACGACCTATTTGGAGCGCACTTCCAGCAGTTCAAGACAGAACG 1924
QY      481 ATGTACATAGGCGCTTCAAGAGGGAATTGAAAACCTAAAGAACTGTATCATGAGTACTC 540
Db      1925 ATGTACATAGGCGCTTCAAGAGGGAATTGAAAACCTGTATCATGAGTACTC 1984
QY      541 TTGAGACTGTACGAATATTTCTGACAGACGACCTTTGGAAAGGACTAGAGAAACTCTACC 600
Db      1985 TTGAGACTGTACGAATATTTCTGACAGACGACCTTTGGAAAGGACTAGAGAAACTCTACC 2044
QY      601 AGGAGCCAGAGAGCTGCTCTCTGAGAGAGAGAGCCCAAGATGTCACTCGGCTTCTACGAA 660
Db      2045 AGGAGCCAGAGAGCTGCTCTCTGAGAGAGAGAGCCCAAGATGTCACTCGGCTTCTACGAA 2104
QY      661 AGCAGGCTGAGAGGTCATATCTGAGTGGAAAAATTGAACCTGCACCTCCGCTGAGTGGC 720
Db      2105 AGCAGGCTGAGAGGTCATATCTGAGTGGAAAAATTGAACCTGCACCTCCGCTGAGTGGC 2164
QY      721 AGAGAAAAATAGATGAGACCTTGAAGAGCTCCAGGAACCTTCAAGAGCCACGAGTAGC 780
Db      2165 AGAGAAAAATAGATGAGACCTTGAAGAGCTCCGGAACCTTCAAGAGCCACGAGTAGC 2224
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QY      781 TGGACCTCAAGCTGCGCCCAAGCTGAGGTGATCAAGGATCCTGGACGCCGTGGCGATC 840
Db      2225 TGGACCTCAAGCTGCGCCCAAGCTGAGGTGATCAAGGATCCTGGACGCCGTGGCGATC 2284
QY      841 TCTCATTTGACTCTCTCCAAAGATCACTCGAGAAAGTCAAGGCACTTCGAGAGAAATTG 900
Db      2285 TCTCATTTGACTCTCTCCAAAGATCACTCGAGAAAGTCAAGGCACTTCGAGAGAAATTG 2344
QY      901 CGCCTGTAAAGAGAACGTGAGCCACGTCAATGACCTTGCTGCGCAGCTTACCACCTTTGG 960
Db      2345 CGCCTGTAAAGAGAACGTGAGCCACGTCAATGACCTTGCTGCGCAGCTTACCACCTTTGG 2404
QY      961 GCATTGAGCTCTCAACCGTATTAACCTGACGACTCTGGAAGACCTGAACACCAAGATGGAAC 1020
Db      2405 GCATTGAGCTCTCAACCGTATTAACCTGACGACTCTGGAAGACCTGAACACCAAGATGGAAC 2464
QY      1021 TTCTGAGGTGGCCGTCGAGGACCGAGTCAAGCAGCTGCAATGAAGCCACAGGACTTTG 1080
Db      2465 TTCTGAGGTGGCCGTCGAGGACCGAGTCAAGCAGCTGCAATGAAGCCACAGGACTTTG 2524
QY      1081 GTCCAGCATCTCAGCAGCTTTCTTCCACGCTCTGTCCAGGGTCCCTGGAGAGAGCCATCT 1140
Db      2525 GTCCAGCATCTCAGCAGCTTTCTTCCACGCTCTGTCCAGGGTCCCTGGAGAGAGCCATCT 2584
QY      1141 CGCCAAACAAAGTGCCCTACTATATCAACCAAGACTCAAAACAATTGCTGGGACCATC 1200
Db      2585 CGCCAAACAAAGTGCCCTACTATATCAACCAAGACTCAAAACAATTGCTGGGACCATC 2644
QY      1201 CCAAAATGACAGAGCTCTACCAAGTCTTTAGCTGACCTGAATAATGTCAGATTCTCAGCTT 1260
Db      2645 CCAAAATGACAGAGCTCTACCAAGTCTTTAGCTGACCTGAATAATGTCAGATTCTCAGCTT 2704
QY      1261 ATAAGACTGCCATGAATACTCCGAAGACTGCAAGAGGCCCTTGTGATCTCTGAGCC 1320
Db      2705 ATAAGACTGCCATGAATACTCCGAAGACTGCAAGAGGCCCTTGTGATCTCTGAGCC 2764
QY      1321 TGTGAGCTGATGATGCTCTTGGACCAACAACCTCAAGCAAAATGACCAAGCCCATGG 1380
Db      2765 TGTGAGCTGATGATGCTCTTGGACCAACAACCTCAAGCAAAATGACCAAGCCCATGG 2824
QY      1381 ATATCCTGCAGATTATTAATGTTTGAACCACTATTATGACCGCCTGGAGCAAGACACA 1440
Db      2825 ATATCCTGCAGATTATTAATGTTTGAACCACTATTATGACCGCCTGGAGCAAGACACA 2884
QY      1441 ACAATTGTGCAACGTCCCTCTCTGCGTGATATGTGTGAACCTGGCTGTAATGTTT 1500
Db      2885 ACAATTGTGCAACGTCCCTCTCTGCGTGATATGTGTGAACCTGGCTGTAATGTTT 2944
QY      1501 A 1501
Db      2945 A 2945
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RESULT 11
US-09-949-016-2812
; Sequence 2812, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; PRIOR FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2812
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LENGTH: 7109
TYPE: DNA
ORGANISM: Human
US-09-949-016-2812

Query Match 99.8%; Score 1497.8; DB 4; Length 7109;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1499; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 1 AGACTCATAGATTACTGCAACAGTTCCTGACCTGGAAGTTTCTGCTGCTTA 60
DB 1445 AAACCTCATGATTACTGCAACAGTTCCTGACCTGGAAGTTTCTGCTGCTTA 1504
QY 61 CAGAGCTGAAACAACCTGCAATGCTCTACAGATGCTACCCGTAAAGAGCTCCTAG 120
DB 1505 CAGAGCTGAAACAACCTGCAATGCTCTACAGATGCTACCCGTAAAGAGCTCCTAG 1564
QY 121 AAGACTCCAAGGAGTAAAGAGCTGATGAAACAATGGCAAGACCTCCAAGTGAATTG 180
DB 1565 AAGACTCCAAGGAGTAAAGAGCTGATGAAACAATGGCAAGACCTCCAAGTGAATTG 1624
QY 181 AAGCTCACACAGATGTTTATCACAACTTGATGAAACAAGCCAAAAATCCTGAGATCCC 240
DB 1625 AAGCTCACACAGATGTTTATCACAACTTGATGAAACAAGCCAAAAATCCTGAGATCCC 1684
QY 241 TGGAGGTTCCGATGATGACAGTCCCTGTTACAAAGCGTTTGATTAACATGAACCTCAAGT 300
DB 1685 TGGAGGTTCCGATGATGACAGTCCCTGTTACAAAGCGTTTGATTAACATGAACCTCAAGT 1744
QY 301 GGAGTGAACCTCGAAAAAGTCTCTCAACATTAAGTCCCATTTGGAAGCCAGTTCTGACC 360
DB 1745 GGAGTGAACCTCGAAAAAGTCTCTCAACATTAAGTCCCATTTGGAAGCCAGTTCTGACC 1804
QY 361 AGTGAAGCGTCTGCAACCTTTCTGCAAGAACTTCTGTGTGCTACAGCTGAAGATG 420
DB 1805 AGTGAAGCGTCTGCAACCTTTCTGCAAGAACTTCTGTGTGCTACAGCTGAAGATG 1864
QY 421 ATGAATTAAAGCCGGCAAGCAACCTATTGGAGCGCACTTCCAGCAGTTCAAGAAAGCAAG 480
DB 1865 ATGAATTAAAGCCGGCAAGCAACCTATTGGAGCGCACTTCCAGCAGTTCAAGAAAGCAAG 1924
QY 481 ATGTACATAGGCGCTTCAAGAGGGAATTGAAACTAAAGAACTGTATCATGAGTACTC 540
DB 1925 ATGTACATAGGCGCTTCAAGAGGGAATTGAAACTAAAGAACTGTATCATGAGTACTC 1984
QY 541 TTGAGACTGTACGAATATTTCTGACAGAGCGCTTTGGAAGACTAGAAACTCTACC 600
DB 1985 TTGAGACTGTACGAATATTTCTGACAGAGCGCTTTGGAAGACTAGAAACTCTACC 2044
QY 601 AGAGCCCAAGAGCTGCTCTGAGAGAGAGCCCAAGATGTCACTCGGCTTCTACGAA 660
DB 2045 AGAGCCCAAGAGCTGCTCTGAGAGAGAGCCCAAGATGTCACTCGGCTTCTACGAA 2104
QY 661 AGCAGGCTGAGAGGTCATATCTGAGTGGGAAAAATTGAACCTGCACCTCGCTGACTGGC 720
DB 2105 AGCAGGCTGAGAGGTCATATCTGAGTGGGAAAAATTGAACCTGCACCTCGCTGACTGGC 2164
QY 721 AGAGAAAAATAGTAGAGACCTTGAAGACTCCAGAACTTCAAGAGGCCAGGATGAGC 780
DB 2165 AGAGAAAAATAGTAGAGACCTTGAAGACTCCAGAACTTCAAGAGGCCAGGATGAGC 2224
QY 781 TGGACCTCAAGCTGCGCCAAAGCTGAGGTGATCAAGGATCCTGCAAGCCGCTGGCGATC 840
DB 2225 TGGACCTCAAGCTGCGCCAAAGCTGAGGTGATCAAGGATCCTGCAAGCCGCTGGCGATC 2284
QY 841 TCCTCATTTGACTCTCTCCAAGATCACCTCGAAGAAAGTCAAGGACCTTGAAGAGAAATTG 900
DB 2285 TCCTCATTTGACTCTCTCCAAGATCACCTCGAAGAAAGTCAAGGACCTTGAAGAGAAATTG 2344
QY 901 CGCCTCTGAAAGAGAAAGTGAAGCCAGCTCAATGACCTTGCTCGCCAGCTTACCACTTTGG 960
DB 2345 CGCCTCTGAAAGAGAAAGTGAAGCCAGCTCAATGACCTTGCTCGCCAGCTTACCACTTTGG 2404

QY 961 GCATTACGCTCTCACCCGATATACCTTCAGCACTCTGGAAGACCTGAACAACCAAGATGGAAGC 1020
DB 2405 GCATTACGCTCTCACCCGATATACCTTCAGCACTCTGGAAGACCTGAACAACCAAGATGGAAGC 2464
QY 1021 TTCTGACGCTGCGCGTGCAGAGCCGAGTCAAGGACGCTGCATGAAGCCCAAGGACTTTG 1080
DB 2465 TTCTGACGCTGCGCGTGCAGAGCCGAGTCAAGGACGCTGCATGAAGCCCAAGGACTTTG 2524
QY 1081 GTCCAGCATCTCAGCACTTTCTTTCCACGCTGCTGTCAGAGGTCCTGGAGAGAGCCATCT 1140
DB 2525 GTCCAGCATCTCAGCACTTTCTTTCCACGCTGCTGTCAGAGGTCCTGGAGAGAGCCATCT 2584
QY 1141 CGCCAAACAAGTGCCCTACTATATCAACCAAGAGACTCAACAACTTGCTGGAGCATC 1200
DB 2585 CGCCAAACAAGTGCCCTACTATATCAACCAAGAGACTCAACAACTTGCTGGAGCATC 2644
QY 1201 CCAAAATGACAGAGCTCTACCAAGTCTTTAGCTGACCTGAATATGTCAGATTCTCAGCTT 1260
DB 2645 CCAAAATGACAGAGCTCTACCAAGTCTTTAGCTGACCTGAATATGTCAGATTCTCAGCTT 2704
QY 1261 ATAGAGCTGCCATGAAACTCCGAAGCTGCAAGAGGCCCTTGTGCTGATCTCTTGAGCC 1320
DB 2705 ATAGAGCTGCCATGAAACTCCGAAGCTGCAAGAGGCCCTTGTGCTGATCTCTTGAGCC 2764
QY 1321 TGTCACTGCATGTGATGCTTGAACCACTATTTATGACCGCTGGAAGAGAGACACA 1380
DB 2765 TGTCACTGCATGTGATGCTTGAACCACTATTTATGACCGCTGGAAGAGAGACACA 2824
QY 1381 ATATCCTGACATTTATTTATTTGTTGACCACTATTATGACCGCTGGAAGAGAGACACA 1440
DB 2825 ATATCCTGACATTTATTTATTTGTTGACCACTATTATGACCGCTGGAAGAGAGACACA 2884
QY 1441 ACAATTTGGTCAACGTCCTCTCTGCGGTGATATGTGTGTAAGTGGCTGTAATGTTT 1500
DB 2885 ACAATTTGGTCAACGTCCTCTCTGCGGTGATATGTGTGTAAGTGGCTGTAATGTTT 2944
QY 1501 A 1501
DB 2945 A 2945

RESULT 12
US-09-949-016-2813
Sequence 2813, Application US/09949016
Patent No. 6812339
GENERAL INFORMATION:
APPLICANT: VENTER, J. Craig et al.
TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF.
FILE REFERENCE: CL001307
CURRENT APPLICATION NUMBER: US/09/949,016
CURRENT FILING DATE: 2000-04-14
PRIOR APPLICATION NUMBER: 60/241,755
PRIOR FILING DATE: 2000-10-20
PRIOR APPLICATION NUMBER: 60/237,768
PRIOR FILING DATE: 2000-10-03
PRIOR APPLICATION NUMBER: 60/231,498
NUMBER OF SEQ ID NOS: 207012
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 2813
LENGTH: 7109
TYPE: DNA
ORGANISM: Human
US-09-949-016-2813

Query Match 99.8%; Score 1497.8; DB 4; Length 7109;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1499; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 1 AGACTCATAGATTACTGCAACAGTTCCTGACCTGGAAGTTTCTGCTGCTTA 60
DB 1445 AAACCTCATGATTACTGCAACAGTTCCTGACCTGGAAGTTTCTGCTGCTTA 1504

QY 61 CAGAACTGAAACAACTGCGCAATGTCCTACAGAGTGTACCCGTAAGGAAAGGCTCCTAG 120
Db 1505 CAGAAAGCTGAAACAACTGCGCAATGTCCTACAGAGTGTACCCGTAAGGAAAGGCTCCTAG 1564
QY 121 AAGACTCCAAGGAGGAGTAAGAGAGCTGATGAAACAAATGGCAAGACCTCCAGGTAAGTTG 180
Db 1565 AAGACTCCAAGGAGGAGTAAGAGAGCTGATGAAACAAATGGCAAGACCTCCAGGTAAGTTG 1624
QY 181 AAGCTCACACAGATGTTTATCACAACTGGATGAAAACAGCCAAAATCCTGAGATCCC 240
Db 1625 AAGCTCACACAGATGTTTATCACAACTGGATGAAAACAGCCAAAATCCTGAGATCCC 1684
QY 241 TGAAGGTTCCGATGATGACAGTCTGTTTACAAAGACGTTTGATTAATGAACCTTCAAGT 300
Db 1685 TGAAGGTTCCGATGATGACAGTCTGTTTACAAAGACGTTTGATTAATGAACCTTCAAGT 1744
QY 301 GGAGTGAACCTTCGGAATAAGTCTCTCAACATTAAGTCCCATTTGAAAGCCAGTTCTGACC 360
Db 1745 GGAGTGAACCTTCGGAATAAGTCTCTCAACATTAAGTCCCATTTGAAAGCCAGTTCTGACC 1804
QY 361 AGTGAAGCGCTCTGCACCTTTCTCTGAGAGAACTTGTGTGGCTACAGCTGAAAGATG 420
Db 1805 AGTGAAGCGCTCTGCACCTTTCTCTGAGAGAACTTGTGTGGCTACAGCTGAAAGATG 1864
QY 421 ATGAATTAAAGCCCGGACAGGACCTTATTTGAGGCGACTTTCACAGCAGTTTCAAGACGAACG 480
Db 1865 ATGAATTAAAGCCCGGACAGGACCTTATTTGAGGCGACTTTCACAGCAGTTTCAAGACGAACG 1924
QY 481 ATGTACATAGGGCCCTTCAAGAGGGAATTGAAAATTAAGAACTTGAATCATGAGTACTC 540
Db 1925 ATGTACATAGGGCCCTTCAAGAGGGAATTGAAAATTAAGAACTTGAATCATGAGTACTC 1984
QY 541 TTGAGACTGTACGAATATTTCTGACAGAGCAGCCTTTGAAAGAGCTAGAGAACTCTACC 600
Db 1985 TTGAGACTGTACGAATATTTCTGACAGAGCAGCCTTTGAAAGAGCTAGAGAACTCTACC 2044
QY 601 AGGAGCCCCAGAGAGCTGCTCTCTGAGAGAGAGCCCAAGATGTCACTCGGCTTTACGAA 660
Db 2045 AGGAGCCCCAGAGAGCTGCTCTCTGAGAGAGAGCCCAAGATGTCACTCGGCTTTACGAA 2104
QY 661 AGCAGGCTGAGAGGTCAATACTAGTGGGAAAAATTTGAACCTGCACTCCGCTGACTGGC 720
Db 2105 AGCAGGCTGAGAGGTCAATACTAGTGGGAAAAATTTGAACCTGCACTCCGCTGACTGGC 2164
QY 721 AGAGAAAAATAGATGAGACCCCTTGAAGACTCCAGGAATTCAAGAGGCCACGGATGAGC 780
Db 2165 AGAGAAAAATAGATGAGACCCCTTGAAGACTCCGGAACCTTCAAGAGGCCACGGATGAGC 2224
QY 781 TGGACCTCAAGCTGCGCCCAAGCTGAGGTGATCAAGGGATCCTGGGAGCCCGTGGCGATC 840
Db 2225 TGGACCTCAAGCTGCGCCCAAGCTGAGGTGATCAAGGGATCCTGGGAGCCCGTGGCGATC 2284
QY 841 TCCTCATTTGACTCTCTCCAAGATCACTTCGAGAAAGTCAAGGCACTTCGAGAGAAATTG 900
Db 2285 TCCTCATTTGACTCTCTCCAAGATCACTTCGAGAAAGTCAAGGCACTTCGAGAGAAATTG 2344
QY 901 CGCCTCTGAAAGAGAACGTGAGCCAGTCAATGACCTTGCTGCGCAGCTTACCACTTTGG 960
Db 2345 CGCCTCTGAAAGAGAACGTGAGCCAGTCAATGACCTTGCTGCGCAGCTTACCACTTTGG 2404
QY 961 GCATTCAAGCTCTCAACCGTATTAACCTCAAGCACTCTGGAAGACCTGAAACACCAAGTGAAGC 1020
Db 2405 GCATTCAAGCTCTCAACCGTATTAACCTCAAGCACTCTGGAAGACCTGAAACACCAAGTGAAGC 2464
QY 1021 TTCTGCAAGTGGCCGCTGAGGACCGAGTCAAGGCACTGCAAGGCAAGGCAAGGCACTTTG 1080
Db 2465 TTCTGCAAGTGGCCGCTGAGGACCGAGTCAAGGCACTGCAAGGCAAGGCAAGGCACTTTG 2524
QY 1081 GTTCCAGCATCTCAGACATTTCTTTCCACAGTCTGTCCAGGGTCCCTGGAGAGAGCCATCT 1140
Db 2525 GTTCCAGCATCTCAGACATTTCTTTCCACAGTCTGTCCAGGGTCCCTGGAGAGAGCCATCT 2584

QY 1141 CGCCAAACAAAGTGGCCCTACTATATATCAACCAAGAGACTCAAAACAACTTGCTGGACCATC 1200
Db 2585 CGCCAAACAAAGTGGCCCTACTATATATCAACCAAGAGACTCAAAACAACTTGCTGGACCATC 2644
QY 1201 CCAAAATGACAGAGCTCTACCAAGTCTTTAGCTGAACCTGAATATATGTCAGATTCTCAGCTT 1260
Db 2645 CCAAAATGACAGAGCTCTACCAAGTCTTTAGCTGAACCTGAATATATGTCAGATTCTCAGCTT 2704
QY 1261 ATAGAGCTGCCATGAAACTCCGAAGACTGCAGAAAGGCCCTTGGATCTTGTGAGCC 1320
Db 2705 ATAGAGCTGCCATGAAACTCCGAAGACTGCAGAAAGGCCCTTGGATCTTGTGAGCC 2764
QY 1321 TGTCAAGTGCATGTGATGCTTGGACCAAGCACAACCTCAAGCAAAATGACCAAGCCATGG 1380
Db 2765 TGTCAAGTGCATGTGATGCTTGGACCAAGCACAACCTCAAGCAAAATGACCAAGCCATGG 2824
QY 1381 ATATCCTGCAGATTATTAATTGTTTGAACCACTATTATGACCGCCTGAGCAAGACACA 1440
Db 2825 ATATCCTGCAGATTATTAATTGTTTGAACCACTATTATGACCGCCTGAGCAAGACACA 2884
QY 1441 ACAATTTGGTCAACGTCCTCTCTGCGTGATATGTCTGAACCTGCTGTAATGTTT 1500
Db 2885 ACAATTTGGTCAACGTCCTCTCTGCGTGATATGTCTGAACCTGCTGTAATGTTT 2944
QY 1501 A 1501
Db 2945 A 2945

RESULT 13
US-09-949-016-2814
/ Sequence 2814, Application US/09949016
/ Patent No. 6812339
/ GENERAL INFORMATION:
/ APPLICANT: VENTER, J. Craig et al.
/ TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
/ TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
/ FILE REFERENCE: CL001307
/ CURRENT APPLICATION NUMBER: US/09/949,016
/ PRIOR FILING DATE: 2000-04-14
/ PRIOR APPLICATION NUMBER: 60/241,755
/ PRIOR FILING DATE: 2000-10-20
/ PRIOR APPLICATION NUMBER: 60/237,768
/ PRIOR FILING DATE: 2000-10-03
/ PRIOR APPLICATION NUMBER: 60/231,498
/ PRIOR FILING DATE: 2000-09-08
/ NUMBER OF SEQ ID NOS: 207012
/ SOFTWARE: FastSeq for Windows Version 4.0
/ SEQ ID NO 2814
/ LENGTH: 7109
/ TYPE: DNA
/ ORGANISM: Human
US-09-949-016-2814

Query Match 99.8%; Score 1497.8; DB 4; Length 7109;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1499; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 1 AGACTCATAGATTACTGCAACAGTTCCTGACAGAGTCTACCCGTAAGGAAAGGCTCCTAG 120
Db 1445 AAATCATAGATTACTGCAACAGTTCCTGACAGAGTCTACCCGTAAGGAAAGGCTCCTAG 1504
QY 61 CAGAACTGAAACAACTGCGCAATGTCTTACAGAGTCTACCCGTAAGGAAAGGCTCCTAG 120
Db 1505 CAGAACTGAAACAACTGCGCAATGTCTTACAGAGTCTACCCGTAAGGAAAGGCTCCTAG 1564
QY 121 AAGACTCCAAGGAGGAGTAAAGAGCTGATGAAACAATGGCAAGACCTCAAGGTGAATTTG 180
Db 1565 AAGACTCCAAGGAGGAGTAAAGAGCTGATGAAACAATGGCAAGACCTCAAGGTGAATTTG 1624
QY 181 AAGCTCACACAGATGTTTATCACAACTGATGAAAACAGCCAAAATCCTGAGATCCC 240
Db 1625 AAGCTCACACAGATGTTTATCACAACTGATGAAAACAGCCAAAATCCTGAGATCCC 1684

QY	421	ATGAAATTAAAGCCGGCAGAGCACTATTGGAGCGACTTTCCAGCAGTTTCAGAAAGCAGACG	480
Db	1865	ATGAATTAAAGCCGGCAGAGCACTATTGGAGCGACTTTCCAGCAGTTTCAGAAAGCAGACG	1924
QY	481	ATGTACATAGGGCCCTTCAAGAGGGAATTGAAAACTAAAGAACCTGTATCATAGACTC	540
Db	1925	ATGTACATAGGGCCCTTCAAGAGGGAATTGAAAACTAAAGAACCTGTATCATAGACTC	1984
QY	541	TTGAGACTGTACGAATATTTCTGCACAGAGCAGCCTTTGGAAGACTAGAGAACTCTACC	600
Db	1985	TTGAGACTGTACGAATATTTCTGCACAGAGCAGCCTTTGGAAGACTAGAGAACTCTACC	2044
QY	601	AGGAGCCACAGAGAGCTGCCTCCTGAGAGAGAGCCCAAGATGTCACTCGGCTTACGAA	660
Db	2045	AGGAGCCACAGAGAGCTGCCTCCTGAGAGAGAGCCCAAGATGTCACTCGGCTTACGAA	2104
QY	661	AGCAGGCTGAGAGAGTCAATACTGAGTGGGAAAAATTGAACCTGCACCTCCGCTGACTGC	720
Db	2105	AGCAGGCTGAGAGAGTCAATACTGAGTGGGAAAAATTGAACCTGCACCTCCGCTGACTGC	2164
QY	721	AGAGAAAAATAGATGAGACCCCTTGAAGACTCCAGGAACCTTCAAGAGGCCACGATGAGC	780
Db	2165	AGAGAAAAATAGATGAGACCCCTTGAAGACTCCAGGAACCTTCAAGAGGCCACGATGAGC	2224
QY	781	TGACCTCAAGCTGCGCCAAAGCTGAGGTGATCAAGGGATCCTGGCAGCCCGTGGCGATC	840
Db	2225	TGACCTCAAGCTGCGCCAAAGCTGAGGTGATCAAGGGATCCTGGCAGCCCGTGGCGATC	2284
QY	841	TCCTCATTTGACTCTCTCCAAGATCACTCGAGAAAAGTCAAGGCACCTTCGAGGAGAAATTG	900
Db	2285	TCCTCATTTGACTCTCTCCAAGATCACTCGAGAAAAGTCAAGGCACCTTCGAGGAGAAATTG	2344
QY	901	CGCCTCTGAAAAGAGAACGTGAGCCAAGTCAATGACCTTGCTCGCAGCTTACCACTTTGG	960
Db	2345	CGCCTCTGAAAAGAGAACGTGAGCCAAGTCAATGACCTTGCTCGCAGCTTACCACTTTGG	2404
QY	961	GCATTCAGCTCTCAACCCTAATAAAGTCAAGCACTTCGAAAGCCTGAAACACAGATGGAAGC	1020
Db	2405	GCATTCAGCTCTCAACCCTAATAAAGTCAAGCACTTCGAAAGCCTGAAACACAGATGGAAGC	2464
QY	1021	TTCTGCAGGTGGCCGTCGAGGACCGAGTCAGGCAAGCTGCATGAAGCCACAGGGACTTTG	1080
Db	2465	TTCTGCAGGTGGCCGTCGAGGACCGAGTCAGGCAAGCTGCATGAAGCCACAGGGACTTTG	2524
QY	1081	GTCAGCATCTCAGCACTTTCTTCCACAGTGTGTCCAGGGTCCCTGGGAGAGAGCCATCT	1140
Db	2525	GTCAGCATCTCAGCACTTTCTTCCACAGTGTGTCCAGGGTCCCTGGGAGAGAGCCATCT	2584
QY	1141	CGCCAAACAAAGTGCCCTACTATATCAACACGAGACTCAAAACAATTGCTGGGACCATC	1200
Db	2585	CGCCAAACAAAGTGCCCTACTATATCAACACGAGACTCAAAACAATTGCTGGGACCATC	2644
QY	1201	CCAAAATGACAGAGCTCTACCAGTCTTTAGCTGAAGCTGAATATGTAGATTCTCAGCTT	1260
Db	2645	CCAAAATGACAGAGCTCTACCAGTCTTTAGCTGAAGCTGAATATGTAGATTCTCAGCTT	2704
QY	1261	ATAGGACTGCACTGAAGAACTCCGAAGACTGCAGAAAGGCCCTTGGCTTGATCTCTTAGCC	1320
Db	2705	ATAGGACTGCACTGAAGAACTCCGAAGACTGCAGAAAGGCCCTTGGCTTGATCTCTTAGCC	2764
QY	1321	TGTCAGCTGCACTGTGATGCCCTTGACACGACAAACCTCAAGCAAAATGACCAAGCCCATGG	1380
Db	2765	TGTCAGCTGCACTGTGATGCCCTTGACACGACAAACCTCAAGCAAAATGACCAAGCCCATGG	2824
QY	1381	ATATCCCTGCAATTAATTAATTGTTGACCACTATTATTAGCCGCTGAGACAGACACA	1440
Db	2825	ATATCCCTGCAATTAATTAATTGTTGACCACTATTATTAGCCGCTGAGACAGACACA	2884
QY	1441	ACAAATTTGCTCAACGTCCCTCTCTGCGTGATATGTCTGAACTGCGTGTGAATGTTT	1500
Db	2885	ACAAATTTGCTCAACGTCCCTCTCTGCGTGATATGTCTGAACTGCGTGTGAATGTTT	2944

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QY      1501 A 1501
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Db      2945 A 2945

      RESULT 15
      US-09-949-016-2816
      ; Sequence 2816, Application US/09949016
      ; Patent No. 6812339
      ; GENERAL INFORMATION:
      ; APPLICANT: VENTER, J. Craig et al.
      ; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
      ; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
      ; FILE REFERENCE: CL001307
      ; CURRENT APPLICATION NUMBER: US/09/949,016
      ; CURRENT FILING DATE: 2000-04-14
      ; PRIOR APPLICATION NUMBER: 60/241,755
      ; PRIOR FILING DATE: 2000-10-20
      ; PRIOR APPLICATION NUMBER: 60/237,768
      ; PRIOR FILING DATE: 2000-10-03
      ; PRIOR APPLICATION NUMBER: 60/231,498
      ; PRIOR FILING DATE: 2000-09-08
      ; NUMBER OF SEQ ID NOS: 207012
      ; SOFTWARE: FastSeq for Windows Version 4.0
      ; SEQ ID NO 2816
      ; LENGTH: 7109
      ; TYPE: DNA
      ; ORGANISM: Human
      US-09-949-016-2816

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Query Match	99.8%;	Score 1497.8;	DB 4;	Length 7109;
Best Local Similarity	99.9%;	Pred. No. 0;		
Matches 1499;	Conservative	0;	Mismatches 2;	Indels 0;
				Gaps 0;
QY 1	AGACTCATGATTACTGCAACAGTTC	CCCCCTGACCTGGAAGTTTCTTGCTGCTTA	60	
Db 1445	AAACTCATGATTACTGCAACAGTTC	CCCCCTGACCTGGAAGTTTCTTGCTGCTTA	1504	
QY 61	CAGAAGCTGAACAACACTGCCAATG	TCTCTACAGATGTACCCCGTAAGAAAGCTCCTAG	120	
Db 1505	CAGAAGCTGAACAACACTGCCAATG	TCTCTACAGATGTACCCCGTAAGAAAGCTCCTAG	1564	
QY 121	AAGACTCCAAAGGAGTAAAGAGCTG	ATGAAACAATGGCAAGACCTCCAAGTGAATTG	180	
Db 1565	AAGACTCCAAAGGAGTAAAGAGCTG	ATGAAACAATGGCAAGACCTCCAAGTGAATTG	1624	
QY 181	AAGCTCACACAGATGTTTATCAACA	ACCTGGATGAAAAACAGCCAAAAATCTTGATCCC	240	
Db 1625	AAGCTCACACAGATGTTTATCAACA	ACCTGGATGAAAAACAGCCAAAAATCTTGATCCC	1684	
QY 241	TGGAAGGTTCCGATGATGACGTCTG	TCTTACAAGACGTTTGATTAACATGAATTCAAGT	300	
Db 1685	TGGAAGGTTCCGATGATGACGTCTG	TCTTACAAGACGTTTGATTAACATGAATTCAAGT	1744	
QY 301	GGAGTGAACCTTCGAAAAAAGTCTC	TCAACATTAGTCCCATTTGGAAGCCAGTTCTGACC	360	
Db 1745	GGAGTGAACCTTCGAAAAAAGTCTC	TCAACATTAGTCCCATTTGGAAGCCAGTTCTGACC	1804	
QY 361	AGTGAAGCGTCTGACCTTTCTCTG	CAGGAATTCTGTGTGGCTACAGCTGAAAGATG	420	
Db 1805	AGTGAAGCGTCTGACCTTTCTCTG	CAGGAATTCTGTGTGGCTACAGCTGAAAGATG	1864	
QY 421	ATGAATTAAGCCGGCAGGACCTATT	TGAGAGCGCACTTCCAGCAGTTCAGAAGCAGAACG	480	
Db 1865	ATGAATTAAGCCGGCAGGACCTATT	TGAGAGCGCACTTCCAGCAGTTCAGAAGCAGAACG	1924	
QY 481	ATGTACATAGGGCCTTCAAGAGGAA	TTGAAAACTAAAGAACTGTAATCATGAGTACTC	540	
Db 1925	ATGTACATAGGGCCTTCAAGAGGAA	TTGAAAACTAAAGAACTGTAATCATGAGTACTC	1984	
QY 541	TTGAGACTGTACGAATATTTCTGAC	CAGACAGCCTTTGGAAGGACTAGAGAACTCTAAC	600	
Db 1985	TTGAGACTGTACGAATATTTCTGAC	CAGACAGCCTTTGGAAGGACTAGAGAACTCTAAC	2044	

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OY 601 AGAGCCCAAGAGCTGCCCTCTGAGAGAGAGCCCAAGATGTCACTCGGCTTCTACGA 660
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Db 2045 AGAGGCCCAAGAGAGCTGCCCTCTGAGAGAGAGCCCAAGATGTCACTCGGCTTCTACGA 2104
OY 661 AGCAGGCTGAGAGAGTCAATAGTGTGGAAAAATTGAACCTGCACTCGGCTGACTGGC 720
    |||||
Db 2105 AGCAGGCTGAGAGAGTCAATAGTGTGGAAAAATTGAACCTGCACTCGGCTGACTGGC 2164
OY 721 AGAGAAAAATAGATGAGACCCCTTGAAAGACTCCAGAACTTCAAGAGGCCACGATGAGC 780
    |||||
Db 2165 AGAGAAAAATAGATGAGACCCCTTGAAAGACTCCGGAACCTTCAAGAGGCCACGATGAGC 2224
OY 781 TGACCTCAAGCTGCGCCAAAGCTGAGGTGATCAAGGATCCTGCGAGCCCGTGGCGATC 840
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Db 2225 TGACCTCAAGCTGCGCCAAAGCTGAGGTGATCAAGGATCCTGCGAGCCCGTGGCGATC 2284
OY 841 TCCTCATTTGACTCTCTCCAAGATCACTCGAGAAAGTCAAGGCACCTTCAGAGAGAAATTG 900
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Db 2285 TCCTCATTTGACTCTCTCCAAGATCACTCGAGAAAGTCAAGGCACCTTCAGAGAGAAATTG 2344
OY 901 CGCCTCTGAAGAGAGACGTGAGCCACGTCAAATGACCTTGCTCGCCAGCTTACCACTTGG 960
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Db 2345 CGCCTCTGAAGAGAGACGTGAGCCACGTCAAATGACCTTGCTCGCCAGCTTACCACTTGG 2404
OY 961 GCATTCACTCTCAACCGTATTAACCTCAGACACTTGGAAGACCTGAACACAGATGGAAGC 1020
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Db 2405 GCATTCACTCTCAACCGTATTAACCTCAGACACTTGGAAGACCTGAACACAGATGGAAGC 2464
OY 1021 TTCTGCAAGTGGCCGTGAGGACCGAGTCAGGCACTGCATGAAAGCCCAAGGACTTTG 1080
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Db 2465 TTCTGCAAGTGGCCGTGAGGACCGAGTCAGGCACTGCATGAAAGCCCAAGGACTTTG 2524
OY 1081 GTCCAGCATCTCAGCACTTTCTTCCACGTTCTGCCAGGCTCCCTGGAGAGAGCCATCT 1140
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Db 2525 GTCCAGCATCTCAGCACTTTCTTCCACGTTCTGCCAGGCTCCCTGGAGAGAGCCATCT 2584
OY 1141 CGCCAAACAAAGTGCCCTACTATATCAACCAAGAGACTCAAAACAATTGCTGGGACCATC 1200
    |||||
Db 2585 CGCCAAACAAAGTGCCCTACTATATCAACCAAGAGACTCAAAACAATTGCTGGGACCATC 2644
OY 1201 CCAAAATGACAGAGCTCTACCAAGCTTTAGCTGACCTGAATATGTGAGATTCTCAGCTT 1260
    |||||
Db 2645 CCAAAATGACAGAGCTCTACCAAGCTTTAGCTGACCTGAATATGTGAGATTCTCAGCTT 2704
OY 1261 ATAGACTGCCATGAAGTCCGAAAGCTGCAAGGCCCTTGTGCTTGAATCTCTTGAGCC 1320
    |||||
Db 2705 ATAGACTGCCATGAAGTCCGAAAGCTGCAAGGCCCTTGTGCTTGAATCTCTTGAGCC 2764
OY 1321 TGTCACTGCAATGTGATGCTTGACCAAGCAACAACCTCAAGCAAAATGACCAAGCCCATGG 1380
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Db 2765 TGTCACTGCAATGTGATGCTTGACCAAGCAACAACCTCAAGCAAAATGACCAAGCCCATGG 2824
OY 1381 ATATCCTGCAAGTTAATTTGTTGACCACTATTATGACCGCTGAGCAAGAAGACACA 1440
    |||||
Db 2825 ATATCCTGCAAGTTAATTTGTTGACCACTATTATGACCGCTGAGCAAGAAGACACA 2884
OY 1441 ACAATTTGGTCAACGTCCCTCTCTGCGTGAATATGTGTGAACCTGGCTGTAATGTTT 1500
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Db 2885 ACAATTTGGTCAACGTCCCTCTCTGCGTGAATATGTGTGAACCTGGCTGTAATGTTT 2944
OY 1501 A 1501
Db 2945 A 2945
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OM nucleic - nucleic search, using sw model

Run on: March 2, 2005, 06:35:12 ; Search time 897.381 Seconds
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Perfect score: 1501
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Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 5394803 seqs, 2962729879 residues

Total number of hits satisfying chosen parameters: 10789606

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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22: /cgn2_6/ptodata/2/pubpna/US60_PUBCOMB.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB	ID	Description
1	1501	100.0	4182	10	US-09-845-416-2	Sequence 2, Appli
2	1501	100.0	5149	10	US-09-845-416-27	Sequence 27, Appli
3	1499.4	99.9	3858	10	US-09-845-416-9	Sequence 9, Appli
4	1499.4	99.9	4825	10	US-09-845-416-29	Sequence 29, Appli
5	1499.4	99.9	4848	10	US-09-845-416-35	Sequence 35, Appli
6	1499.4	99.9	5060	10	US-09-845-416-36	Sequence 36, Appli
7	1499.4	99.9	8689	17	US-10-149-736-42	Sequence 42, Appli
8	1499.4	99.9	11058	10	US-09-845-416-1	Sequence 1, Appli
9	1499.4	99.9	11443	17	US-10-149-736-44	Sequence 44, Appli
10	1499.4	99.9	12057	17	US-10-149-736-47	Sequence 47, Appli
11	1499.4	99.9	13957	9	US-09-782-378A-22	Sequence 22, Appli

12	1499.4	99.9	13957	9	US-09-880-107-2284	Sequence 2284, Ap
13	1499.4	99.9	13957	17	US-10-149-736-1	Sequence 1, Appli
14	1499.4	99.9	14069	17	US-10-172-118-434	Sequence 434, App
15	1499.4	99.9	14069	17	US-10-342-887-434	Sequence 434, App
16	1499.4	99.9	14082	17	US-10-341-434-108	Sequence 108, App
17	1499.4	99.9	14082	17	US-10-172-118-981	Sequence 981, App
18	1499.4	99.9	14082	17	US-10-342-887-981	Sequence 981, App
19	1499	99.9	2169	10	US-09-845-416-4	Sequence 4, Appli
20	1499	99.9	3531	10	US-09-845-416-10	Sequence 10, Appli
21	1499	99.9	3999	10	US-09-845-416-6	Sequence 6, Appli
22	1499	99.9	4498	10	US-09-845-416-30	Sequence 30, Appli
23	1499	99.9	4966	10	US-09-845-416-28	Sequence 28, Appli
24	1499	99.9	4990	10	US-09-845-416-34	Sequence 34, Appli
25	1497	99.7	5339	17	US-10-149-736-40	Sequence 40, Appli
26	1496	99.7	5462	17	US-10-149-736-41	Sequence 41, Appli
27	1285	85.6	13815	17	US-10-149-736-2	Sequence 2, Appli
28	1156.8	77.1	3510	10	US-09-845-416-12	Sequence 12, Appli
29	1156.8	77.1	4476	10	US-09-845-416-31	Sequence 31, Appli
30	1152	76.7	1821	10	US-09-845-416-13	Sequence 13, Appli
31	766.6	51.1	3446	10	US-09-845-416-14	Sequence 14, Appli
32	766.6	51.1	4414	10	US-09-845-416-32	Sequence 32, Appli
33	765.6	51.0	5417	17	US-10-149-736-39	Sequence 39, Appli
34	765	51.0	1434	10	US-09-845-416-15	Sequence 15, Appli
35	587.4	39.1	10705	17	US-10-152-319A-1598	Sequence 1598, Ap
36	581.2	38.7	11096	17	US-10-149-736-4	Sequence 4, Appli
37	564.6	37.6	10302	9	US-09-782-378A-23	Sequence 23, Appli
38	564.6	37.6	10302	17	US-10-149-736-3	Sequence 3, Appli
39	552.6	36.8	16531	15	US-10-101-510-667	Sequence 667, App
40	476.4	31.7	5106	17	US-10-220-120-157	Sequence 157, App
41	387	25.8	387	17	US-10-149-736-32	Sequence 32, Appli
42	348	23.2	348	17	US-10-149-736-31	Sequence 31, Appli
43	324	21.6	324	17	US-10-149-736-33	Sequence 33, Appli
44	221	14.7	887	17	US-10-149-736-35	Sequence 35, Appli
45	216	14.4	216	17	US-10-149-736-34	Sequence 34, Appli

ALIGNMENTS

RESULT 1

US-09-845-416-2

Sequence 2, Application US/09845416

Publication No. US20030171312A1

GENERAL INFORMATION:

APPLICANT: XIAO, XIAO

TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE THEREOF

FILE REFERENCE: DE1142

CURRENT APPLICATION NUMBER: US/09/845,416

CURRENT FILING DATE: 2001-04-30

PRIOR APPLICATION NUMBER: 60/200,777

PRIOR FILING DATE: 2000-04-28

NUMBER OF SEQ ID NOS: 36

SOFTWARE: Patentin Ver. 2.1

SEQ ID NO 2

LENGTH: 4182

TYPE: DNA

ORGANISM: Homo sapiens

US-09-845-416-2

Query Match	100.0%;	Score 1501;	DB 10;	Length 4182;
Best local Similarity	100.0%;	Pred. No. 0;		
Matches 1501;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;
Qy	1	AGACTCATAGATTACTGCAACAGTTCCTGAGCTGGAAGTTTCTTGCTGCTTA	60	
Db	2000	AGACTCATAGATTACTGCAACAGTTCCTGAGCTGGAAGTTTCTTGCTGCTTA	2059	
Qy	61	CAGAAGCTGAACAACCTGCCAATGTCTTACAGAGTGCTACCCGTGAAGAAAGCTCTAG	120	
Db	2060	CAGAAGCTGAACAACCTGCCAATGTCTTACAGAGTGCTACCCGTGAAGAAAGCTCTAG	2119	
Qy	121	AAGACTCAAGGAGTAAGAGAGCTGATGAACAATGGCAAGACTTCAAGGTGAATTG	180	

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QY 181 AAGCTCACACAGATGTTTATCACAACCTGGATGAAAAAGCCAAAAATCCTGAGATCCC 240
Db 2180 AAGCTCACACAGATGTTTATCACAACCTGGATGAAAAAGCCAAAAATCCTGAGATCCC 2239
QY 241 TGGAAAGGTTCCGATGATGCACTCTGTTACAAAGACGTTTGGATTAACATGAACCTTCAAGT 300
Db 2240 TGGAAAGGTTCCGATGATGCACTCTGTTACAAAGACGTTTGGATTAACATGAACCTTCAAGT 2299
QY 301 GGAGTGAACCTTCGGAAAAAGTCTCTCAACATTTAGGTCCTCATTTGGAAAGCCAGTTCTGACC 360
Db 2300 GGAGTGAACCTTCGGAAAAAGTCTCTCAACATTTAGGTCCTCATTTGGAAAGCCAGTTCTGACC 2359
QY 361 AGTGAAGCGTCTGCACTTTCTCTGCAAGAACTTGTGTGGCTACAGCTGAAGAGATG 420
Db 2360 AGTGAAGCGTCTGCACTTTCTCTGCAAGAACTTGTGTGGCTACAGCTGAAGAGATG 2419
QY 421 ATGAATTAAGCCGGCAGGACCTTATGGAGGCGACTTTCAGCAGTTCAAGACGAAACG 480
Db 2420 ATGAATTAAGCCGGCAGGACCTTATGGAGGCGACTTTCAGCAGTTCAAGACGAAACG 2479
QY 481 ATGTACATAGGCGCTTCAAGAGGGAATTGAAAACTAAAGAACTGTATCATGAGTACTC 540
Db 2480 ATGTACATAGGCGCTTCAAGAGGGAATTGAAAACTAAAGAACTGTATCATGAGTACTC 2539
QY 541 TTGAGACTGTACGAATATTTCTGACAGACGACCTTTGGAAGACTAGAAACTCTACC 600
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QY 601 AGAGCCCAAGAGAGCTGCTCTGAGAGAGAGAGCCCAAGATGTCACTCGGCTTTACGAA 660
Db 2600 AGAGCCCAAGAGAGCTGCTCTGAGAGAGAGAGCCCAAGATGTCACTCGGCTTTACGAA 2659
QY 661 AGCAGGCTGAGGAGGTCAATACTGAGTGGAAAAATTGAACCTGCACTCCGCTGACTGGC 720
Db 2660 AGCAGGCTGAGGAGGTCAATACTGAGTGGAAAAATTGAACCTGCACTCCGCTGACTGGC 2719
QY 721 AGAGAAAAATAGATGAGAGACCTTGAAGAACTCCAGAACTTCAAGAGGCCACGGATGAGC 780
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QY 781 TGGACCTCAAGCTGCGCCAAGCTGAGGTGATCAAGGGATCCTGGCAGCCGCTGGCGATC 840
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QY 841 TCCTCATTTGACTCTCTCCAAGATCAACCTCGAGAAAGTCAAGGCACTTTCAGAGAGAAATTG 900
Db 2840 TCCTCATTTGACTCTCTCCAAGATCAACCTCGAGAAAGTCAAGGCACTTTCAGAGAGAAATTG 2899
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QY 961 GCATTCAAGCTCAACCGTATTAACCTCAGCACTCTGGAAGACCTGAAACACAGATGAGAC 1020
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QY 1021 TTCTGCAAGTGGCCGCTCGAGGACCGGATCAGGCACTGCAAGGCACTTTCAGAGAGACTTTG 1080
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QY 1081 GTCCAGCATCTCAGCACTTTCTTTCCACGCTGTCTCAGGGTCCCTGGAGAGAGCCATCT 1140
Db 3080 GTCCAGCATCTCAGCACTTTCTTTCCACGCTGTCTCAGGGTCCCTGGAGAGAGCCATCT 3139
QY 1141 CGCCAAACAAGTGCCCTACTATATCAACCAAGAGACTCAAAACAATTGCTGGAGACCATC 1200
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QY 1321 TGTCAAGCTGCATGTGATGCTTGGACCAAGCAAACTCAAGCAAAATGACAGGCCCATGG 1380
Db 3320 TGTCAAGCTGCATGTGATGCTTGGACCAAGCAAACTCAAGCAAAATGACAGGCCCATGG 3379
QY 1381 ATATCCTGCAGATTTAATTATTTGTAACCACTATTATGACCGCCTGGAGCAAGACACA 1440
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Db 3440 ACAATTTGCTCAACGTCCTCTCTGCGGTGATATGTCTGAACTGGCTGTGAATGTTT 3499
QY 1501 A 1501
Db 3500 A 3500

RESULT 2
US-09-845-416-27
; Sequence 27, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845,416
; PRIOR FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 27
; LENGTH: 5149
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-27

Query Match 100.0%; Score 1501; DB 10; Length 5149;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1501; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Db 2757 AGACTCATATGATTAAGTCAACAGATTTCCCTTGACCTGGAAGAAAGTTCTTGCTGCTTA 2816
QY 61 CAGAGCTGAACAACCTGCCAATGCTCTACAGAGATGCTAACCCGTAAGAAAGCTCCTAG 120
Db 2817 CAGAGCTGAACAACCTGCCAATGCTCTACAGAGATGCTAACCCGTAAGAAAGCTCCTAG 2876
QY 121 AAGACTCCAAGGAGTAAGAGCTGATGAACAATGGCAAGACCTCCAAGGTGAATTTG 180
Db 2877 AAGACTCCAAGGAGTAAGAGCTGATGAACAATGGCAAGACCTCCAAGGTGAATTTG 2936
QY 181 AAGCTCACACAGATGTTTATCACAACCTGATGAAAAAGCCAAAAATCCTGAGATCCC 240
Db 2937 AAGCTCACACAGATGTTTATCACAACCTGATGAAAAAGCCAAAAATCCTGAGATCCC 2996
QY 241 TGGAAAGGTTCCGATGATGCACTCTGTTACAAAGACGTTTGGATTAACATGAACCTTCAAGT 300
Db 2997 TGGAAAGGTTCCGATGATGCACTCTGTTACAAAGACGTTTGGATTAACATGAACCTTCAAGT 3056
QY 301 GGAGTGAACCTTCGGAAAAAGTCTCTCAACATTTAGGTCCTCATTTGGAAAGCCAGTTCTGACC 360
Db 3057 GGAGTGAACCTTCGGAAAAAGTCTCTCAACATTTAGGTCCTCATTTGGAAAGCCAGTTCTGACC 3116
QY 361 AGTGAAGCGTCTGCACTTTCTCTGCAAGAACTTGTGTGGCTACAGCTGAAGAGATG 420

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Qy 421 ATGAATTAAACCCGCGACAGCACCCTATTTGAGCGCACTTTCAGCAGTTCAGAAGCAGAACG 480
Db 3177 ATGAATTAAACCCGCGACAGCACCCTATTTGAGCGCACTTTCAGCAGTTCAGAAGCAGAACG 3236
Qy 481 ATGTACATAGGGCCCTTCAAGAGGGAATTGAAAACTAAAGAACTGTATCATGAGTACTC 540
Db 3237 ATGTACATAGGGCCCTTCAAGAGGGAATTGAAAACTAAAGAACTGTATCATGAGTACTC 3296
Qy 541 TTGAGACTGTACGAATATTTCTGACAGACAGCCCTTTGGAAGACTAGAAAACTTACC 600
Db 3297 TTGAGACTGTACGAATATTTCTGACAGACAGCCCTTTGGAAGACTAGAAAACTTACC 3356
Qy 601 AGGAGCCGAGAGACTGCGCTCCTGAGAGAGAGAGCCAGAAATGTCACTCGGCTTCTACGAA 660
Db 3357 AGGAGCCGAGAGACTGCGCTCCTGAGAGAGAGAGCCAGAAATGTCACTCGGCTTCTACGAA 3416
Qy 661 AGCAGGCTGAGAGAGTCAATACTAGTGGGAAAAATTGAACCTGCACTCCGCTGACTGGC 720
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Qy 721 AGAGAAAAATAGATGAGACCCCTTGAAGAAGCTCCAGGAAGCTTCAAGAGGCCACGGATGAGC 780
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Qy 781 TGGACCTCAAGCTGCGCCAAAGCTGAGGTGATCAAGGGATCCTGGACGCCGCTGGCGGATC 840
Db 3537 TGGACCTCAAGCTGCGCCAAAGCTGAGGTGATCAAGGGATCCTGGACGCCGCTGGCGGATC 3596
Qy 841 TCCCTATTGACTCTCTCCAAGATCACTCGAAGAGTCAAGGCACTTGAAGAGAAATTG 900
Db 3597 TCCCTATTGACTCTCTCCAAGATCACTCGAAGAGTCAAGGCACTTGAAGAGAAATTG 3656
Qy 901 CGCCTCTGAAGAAGAAAGTGAAGCAAGTCAATGACCTTGCTCGCCAGCTTACCACTTTGG 960
Db 3657 CGCCTCTGAAGAAGAAAGTGAAGCAAGTCAATGACCTTGCTCGCCAGCTTACCACTTTGG 3716
Qy 961 GCATTCAAGCTCTCAACCGTATTAACCTTCAGCACTCTGGAAGACCTGAACACCAAGATGGAAGC 1020
Db 3717 GCATTCAAGCTCTCAACCGTATTAACCTTCAGCACTCTGGAAGACCTGAACACCAAGATGGAAGC 3776
Qy 1021 TTCTGAGGTGGCCGCTGAGGAGCCGAGTCAAGGCACTGATGAAGCCCAAGGCACTTTG 1080
Db 3777 TTCTGAGGTGGCCGCTGAGGAGCCGAGTCAAGGCACTGATGAAGCCCAAGGCACTTTG 3836
Qy 1081 GTCCAGCATCTCAGCACTTTCTTCCAGTCTGTCCAGGCTCCCTGGAGAGAGCCATCT 1140
Db 3837 GTCCAGCATCTCAGCACTTTCTTCCAGTCTGTCCAGGCTCCCTGGAGAGAGCCATCT 3896
Qy 1141 CGCCAAACAAGTGCCCTACTATATCAACAAGAGACTCAAAACAATTGCTGGAGCATC 1200
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Qy 1201 CCAAAAATGACAGAGCTCTACCAAGTCTTTAGCTGACCTGAATTAATGTCAAGTTCTCAGCTT 1260
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Qy 1321 TGTCAAGTGCATGTGATGCTTGACCAACAACCTCAAGCAAAATGACCAAGCCCATGG 1380
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Qy 1501 A 1501
Db 4257 A 4257

RESULT 3
US-09-845-416-9
; Sequence 9, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845,416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 9
; LENGTH: 3858
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-9
Query Match 99.9%; Score 1499.4; DB 10; Length 3858;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1500; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
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Db 1676 ACACCTCATAGATTACTGCAACAGTTCCTGAGCCTGGAAGTCTTCTTGCCCTGGCTTA 1735
Qy 61 CAGAAAGTGAACAACACTGCCAATGCTCTACAGAGTGTACCCGTAAAGAAAGCTCCTAG 120
Db 1736 CAGAAAGTGAACAACACTGCCAATGCTCTACAGAGTGTACCCGTAAAGAAAGCTCCTAG 1795
Qy 121 AAGACTCCAAGGAGTAAAGAGCTGATGAACAATGCAAGCAAGTGAAGTGAATTG 180
Db 1796 AAGACTCCAAGGAGTAAAGAGCTGATGAACAATGCAAGCAAGTGAAGTGAATTG 1855
Qy 181 AAGCTCACACAGATGTTTATCAACAACCTGATGAAGAAACAGCCAAAATCCTGAGATCCC 240
Db 1856 AAGCTCACACAGATGTTTATCAACAACCTGATGAAGAAACAGCCAAAATCCTGAGATCCC 1915
Qy 241 TGAAGGTTCCGATGATGACAGTCTGTTACAAAGACGTTTGGATTAACATGAACCTCAAGT 300
Db 1916 TGAAGGTTCCGATGATGACAGTCTGTTACAAAGACGTTTGGATTAACATGAACCTCAAGT 1975
Qy 301 GGAGTGAACCTTGGAAAAAGTCTCTCAACATTAGGTCCATTGGAAAGCCAGTTCTGACC 360
Db 1976 GGAGTGAACCTTGGAAAAAGTCTCTCAACATTAGGTCCATTGGAAAGCCAGTTCTGACC 2035
Qy 361 AGTGAAGCGTCTGCACTTTCTCTGCAAGAACTTCTGTTGGCTACAGCTGAAAGATG 420
Db 2036 AGTGAAGCGTCTGCACTTTCTCTGCAAGAACTTCTGTTGGCTACAGCTGAAAGATG 2095
Qy 421 ATGAATTAAAGCCGACGACCTATTTGAGAGCGCACTTTCAGCAGTTCAAGAGCAGAACG 480
Db 2096 ATGAATTAAAGCCGACGACCTATTTGAGAGCGCACTTTCAGCAGTTCAAGAGCAGAACG 2155
Qy 481 ATGTACATAGGGCCCTTCAAGAGGGAATTGAAAACTAAAGAACTGTATCATGAGTACTC 540
Db 2156 ATGTACATAGGGCCCTTCAAGAGGGAATTGAAAACTAAAGAACTGTATCATGAGTACTC 2215
Qy 541 TTGAGACTGTACGAATATTTCTGACAGACAGAGCCCTTTGGAAGACTAGAGAACTCTACC 600
Db 2216 TTGAGACTGTACGAATATTTCTGACAGACAGAGCCCTTTGGAAGACTAGAGAACTCTACC 2275
Qy 601 AGAGCCCAAGAGAGCTGCTCCTGAGAGAGAGAGCCAGAAATGTCACTCGGCTTCTACGAA 660

Db	2276	AGGAGCCAGAGAGCTGCTCTCTGAGGAGAGAGCCCAAGATGTCACTCGGCTTCTACGAA	2335
QY	661	AGCAGGCTGAGGAGGTCAATACTGAGTGGGAAAAATTGAACCTGCACTCCGCTGACTGGC	720
Db	2336	AGCAGGCTGAGGAGGTCAATACTGAGTGGGAAAAATTGAACCTGCACTCCGCTGACTGGC	2395
QY	721	AGAGAAAAATAGATGAGACCCCTTGAAAGACTCCAGGAATTCAAGAGGCCACGATGAGC	780
Db	2396	AGAGAAAAATAGATGAGACCCCTTGAAAGACTCCAGGAATTCAAGAGGCCACGATGAGC	2455
QY	781	TGGACCTCAAGCTGCGCCCAAGCTGAGGTGATCAAGGGATCTGGCAGCCCGTGGCGATC	840
Db	2456	TGGACCTCAAGCTGCGCCCAAGCTGAGGTGATCAAGGGATCTGGCAGCCCGTGGCGATC	2515
QY	841	TCCTCATTTGACTCTCTCCAAAGATCACTCGAGAAAGTCAAGGCACTTCGAGAGAAATTG	900
Db	2516	TCCTCATTTGACTCTCTCCAAAGATCACTCGAGAAAGTCAAGGCACTTCGAGAGAAATTG	2575
QY	901	CGCCTCTGAAGAGAAACGTGAGCCACGTCAATGACCTTGCTCGCCAGCTTACCACTTTGG	960
Db	2576	CGCCTCTGAAGAGAAACGTGAGCCACGTCAATGACCTTGCTCGCCAGCTTACCACTTTGG	2635
QY	961	GCATTGAGCTCTCACCCGTATAACTCAGCACTCTGGAAGACCTGAACACCAAGTGAAGC	1020
Db	2636	GCATTGAGCTCTCACCCGTATAACTCAGCACTCTGGAAGACCTGAACACCAAGTGAAGC	2695
QY	1021	TTCTGCAAGTGGCCGCTCGAGGACCGAGTCAGGCAGCTGCA TGAAGCCCAAGGACTTTG	1080
Db	2696	TTCTGCAAGTGGCCGCTCGAGGACCGAGTCAGGCAGCTGCA TGAAGCCCAAGGACTTTG	2755
QY	1081	GTCCAGCATCTCAGCACTTTCTTTCCACGCTGTCCAGGGTCCCTGGGAGAGCCATCT	1140
Db	2756	GTCCAGCATCTCAGCACTTTCTTTCCACGCTGTCCAGGGTCCCTGGGAGAGCCATCT	2815
QY	1141	CGCCAAACAAAGTGCCCTTATATCAACCAAGGACTCAAAACAACTTGCTGGAGCATC	1200
Db	2816	CGCCAAACAAAGTGCCCTTATATCAACCAAGGACTCAAAACAACTTGCTGGAGCATC	2875
QY	1201	CCAAATGACAGAGCTCTACCAAGCTTTAGCTGACCTGAATAATGTCAATTTCTAGCTT	1260
Db	2876	CCAAATGACAGAGCTCTACCAAGCTTTAGCTGACCTGAATAATGTCAATTTCTAGCTT	2935
QY	1261	ATAGGACTGCCATGAACTCCGAAGACTGCAGAGAGGCCCTTTGCTTGAATCTTGAGCC	1320
Db	2936	ATAGGACTGCCATGAACTCCGAAGACTGCAGAGAGGCCCTTTGCTTGAATCTTGAGCC	2995
QY	1321	TGTCAGCTGCATGTGATGCTTGGACCAAGCACTCAAGCAAAATGACAGCCCATGG	1380
Db	2996	TGTCAGCTGCATGTGATGCTTGGACCAAGCACTCAAGCAAAATGACAGCCCATGG	3055
QY	1381	ATATCCTGCAGATTATTAATTGTTTGACCACTAATTATGACCCGCTGGAGCAAGAGACA	1440
Db	3056	ATATCCTGCAGATTATTAATTGTTTGACCACTAATTATGACCCGCTGGAGCAAGAGACA	3115
QY	1441	ACAATTTGGTCAACGTCCCTCTCTGCGTGAATATGTGTGAACTGGCTGCTGAATGTTT	1500
Db	3116	ACAATTTGGTCAACGTCCCTCTCTGCGTGAATATGTGTGAACTGGCTGCTGAATGTTT	3175
QY	1501	A 1501	
Db	3176	A 3176	

```

RESULT 4
US-09-845-416-29
; Sequence 29, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; THEREOF
; FILE REFERENCE: DE1142

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; CURRENT APPLICATION NUMBER: US/09/845,416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 29
; LENGTH: 4825
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-29

```

Query Match	99.9%	Score 1499.4;	DB 10;	Length 4825;
Best Local Similarity	99.9%;	Pred. No. 0;		
Matches 1500; Conservative	0;	Mismatches	1;	Indels 0; Gaps 0;

QY	1	AGACTCATAGATTACTGCAACAGTTCCCTGGACCTGGAAAGTTTCTTGCCTGGCTTA	60
Db	2433	ACACTCATAGATTACTGCAACAGTTCCCTGGACCTGGAAAGTTTCTTGCCTGGCTTA	2492
QY	61	CAGAGCTGAAACAACCTGCCAATGTCCTACAGATGCTACCCGTAAGAAAGGCTCCTAG	120
Db	2493	CAGAACTGAAACAACCTGCCAATGTCCTACAGATGCTACCCGTAAGAAAGGCTCCTAG	2552
QY	121	AAGACTCCAAGGGAGTAAAGAGCTGATGAAACAATGGCAAGACCTCCAAAGTGAATTG	180
Db	2553	AAGACTCCAAGGGAGTAAAGAGCTGATGAAACAATGGCAAGACCTCCAAAGTGAATTG	2612
QY	181	AAGCTCACACAGATGTTTATCACAACCTGGATGAAACAGCCAAAAATCCTGAGATCCC	240
Db	2613	AAGCTCACACAGATGTTTATCACAACCTGGATGAAACAGCCAAAAATCCTGAGATCCC	2672
QY	241	TGGAAGTTCGATGATGACGTCCTGTTACAAAGACGTTGGATAACATGAATTCAAGT	300
Db	2673	TGGAAGTTCGATGATGACGTCCTGTTACAAAGACGTTGGATAACATGAATTCAAGT	2732
QY	301	GGAATGAACCTTCGAAAAAGTCTCTCAACATTAGTCCCATTTTGAAGCCAGTTCTGACC	360
Db	2733	GGAATGAACCTTCGAAAAAGTCTCTCAACATTAGTCCCATTTTGAAGCCAGTTCTGACC	2792
QY	361	AGTGAAGCGTTCGCACTTTCTCTGCAGAACTTCTGTGTGCTACAGCTGAAGATG	420
Db	2793	AGTGAAGCGTTCGCACTTTCTCTGCAGAACTTCTGTGTGCTACAGCTGAAGATG	2852
QY	421	ATGAATTAAAGCCGGCAGGCACTATTGGAGCGCACTTCCAGCAGTTCAAGACGAAGCG	480
Db	2853	ATGAATTAAAGCCGGCAGGCACTATTGGAGCGCACTTCCAGCAGTTCAAGACGAAGCG	2912
QY	481	ATGTACATAGGCGCTTCAAGAGGAAATTGAACCTAAAGAACCTGTAAATCATGAGTACTC	540
Db	2913	ATGTACATAGGCGCTTCAAGAGGAAATTGAACCTAAAGAACCTGTAAATCATGAGTACTC	2972
QY	541	TTGAGACTGTACGAATATTTCTGACAGACGACCTTTGGAAGGACTAGAGAACTCTACC	600
Db	2973	TTGAGACTGTACGAATATTTCTGACAGACGACCTTTGGAAGGACTAGAGAACTCTACC	3032
QY	601	AGGAGCCCAAGAGACTGCGCTCCTGAGGAGAGAGCCCAAGATGTCACTCGGCTTCTACGA	660
Db	3033	AGGAGCCCAAGAGACTGCGCTCCTGAGGAGAGAGCCCAAGATGTCACTCGGCTTCTACGA	3092
QY	661	AGCAGGCTGAGAGAGTCAATACTGAGTGGAAAAATTGAACCTGCACTCCGCTGACTGGC	720
Db	3093	AGCAGGCTGAGAGAGTCAATACTGAGTGGAAAAATTGAACCTGCACTCCGCTGACTGGC	3152
QY	721	AGAGAAAAATAGATGAGACCTTGAAGAAGCTCCAGGAATTCAAGAGGCCACGATGAAC	780
Db	3153	AGAGAAAAATAGATGAGACCTTGAAGAAGCTCCAGGAATTCAAGAGGCCACGATGAAC	3212
QY	781	TGGAACCTCAAGCTGCGCCAAGCTGAGGTGATCAAGGGAATCTTGCAAGCCCGTGGCGATC	840
Db	3213	TGGAACCTCAAGCTGCGCCAAGCTGAGGTGATCAAGGGAATCTTGCAAGCCCGTGGCGATC	3272
QY	841	TCCTCATTTACTCTCTCCAAAGATCACTCGAGAAAGTCAAGGCACTTTCAGAGAGAAATTG	900

Db 3273 TCCTCATGACTCTCTCCAGATCACCTCGAGAAAGTCAAGGCACCTCGAGAGAAATTG 3332
Qy 901 CGCCTCTGAAGAGAACGTGAGCCACGTCAATGACCTTGCTCGCCAGCTTACCATTGG 960
Db 3333 CGCCTCTGAAGAGAACGTGAGCCACGTCAATGACCTTGCTCGCCAGCTTACCATTGG 3392
Qy 961 GCATTAGCTCTCAACCGTATTAACCTCAGCACTCTGGAAGACCTGAACACAGATGGAAGC 1020
Db 3393 GCATTAGCTCTCAACCGTATTAACCTCAGCACTCTGGAAGACCTGAACACAGATGGAAGC 3452
Qy 1021 TTCTGCAAGTGGCCGTCGAGGACCGAGTCAGGCACTGCAATGAAGCCCAAGGACTTTG 1080
Db 3453 TTCTGCAAGTGGCCGTCGAGGACCGAGTCAGGCACTGCAATGAAGCCCAAGGACTTTG 3512
Qy 1081 GTCCAGCATCTCAGCACTTTCTTCCAGCTGTGCCAGGCTCCCTGGAGAGAGCCATCT 1140
Db 3513 GTCCAGCATCTCAGCACTTTCTTCCAGCTGTGCCAGGCTCCCTGGAGAGAGCCATCT 3572
Qy 1141 CGCCAAACAAAGTGCCCTACTATATCAACCAAGACTCAAAACAATTGCTGGACCATC 1200
Db 3573 CGCCAAACAAAGTGCCCTACTATATCAACCAAGACTCAAAACAATTGCTGGACCATC 3632
Qy 1201 CCAAAATGACAGAGCTCTACCAAGCTCTTAAGCTGACCTGAATATGTCAGATTCTCAGCTT 1260
Db 3633 CCAAAATGACAGAGCTCTACCAAGCTCTTAAGCTGACCTGAATATGTCAGATTCTCAGCTT 3692
Qy 1261 ATAGGACTGCCATGAAGCTCCGAAGCTGCAAGAGCCCTTGCTTGATCTCTTGAGCC 1320
Db 3693 ATAGGACTGCCATGAAGCTCCGAAGCTGCAAGAGCCCTTGCTTGATCTCTTGAGCC 3752
Qy 1321 TGTCAAGTGCATGTGATGCTTGACCAAGCAACAACCTCAAGCAAAATGACCAAGCCATGG 1380
Db 3753 TGTCAAGTGCATGTGATGCTTGACCAAGCAACAACCTCAAGCAAAATGACCAAGCCATGG 3812
Qy 1381 ATATCTGACAGATTATTAATGTTGAACCACTATTATGACCGCTGGAGCAAGACACA 1440
Db 3813 ATATCTGACAGATTATTAATGTTGAACCACTATTATGACCGCTGGAGCAAGACACA 3872
Qy 1441 ACAATTGGTCAACGTCCTCTCTGCGGTGATATGTGTCTGAACCTGCTGTAATGTTT 1500
Db 3873 ACAATTGGTCAACGTCCTCTCTGCGGTGATATGTGTCTGAACCTGCTGTAATGTTT 3932
Qy 1501 A 1501
Db 3933 A 3933

RESULT 5
US-09-845-416-35
; Sequence 35, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845,416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 35
; LENGTH: 4848
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-35

Query Match 99.9%; Score 1499.4; DB 10; Length 4848;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1500; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 AGACTCATAGATTACTGCAACAGTTCCCCCTGAGCCTGGAAGAAAGTTTCTTGCTGCTTA 60
Db 2456 ACACCTCATAGATTACTGCAACAGTTCCCCCTGAGCCTGGAAGAAAGTTTCTTGCTGCTTA 2515
Qy 61 CAGAACTGAAACAACCTGCCAATGCTCTACAGAGTCTACCCGTAAAGAAAGGCTCCTAG 120
Db 2516 CAGAACTGAAACAACCTGCCAATGCTCTACAGAGTCTACCCGTAAAGAAAGGCTCCTAG 2575
Qy 121 AAGACTCAAGGGAGTAAAGAGCTGATGAACAATGGCAAGACCTCCAAGGTGAATTTG 180
Db 2576 AAGACTCAAGGGAGTAAAGAGCTGATGAACAATGGCAAGACCTCCAAGGTGAATTTG 2635
Qy 181 AAGCTCACACAGATGTTTATCACAACTTGATGAACACAGCCAAATAATCCTGAGATCCC 240
Db 2636 AAGCTCACACAGATGTTTATCACAACTTGATGAACACAGCCAAATAATCCTGAGATCCC 2695
Qy 241 TGAAGGTTCCGATGATGACAGTCTGTTACAAAGACGTTTGGATTAACATGAACCTCAAGT 300
Db 2696 TGAAGGTTCCGATGATGACAGTCTGTTACAAAGACGTTTGGATTAACATGAACCTCAAGT 2755
Qy 301 GGAATGAATTGGAAGGAGTCTCAACATTAGGTCCTGATTTGGAAGCCAGTTCTGACC 360
Db 2756 GGAATGAATTGGAAGGAGTCTCAACATTAGGTCCTGATTTGGAAGCCAGTTCTGACC 2815
Qy 361 AGTGAAGCTGTGACCTTTCTGTCAGAGAACTTCTGCTGCTCAAGCTGGAAGATG 420
Db 2816 AGTGAAGCTGTGACCTTTCTGTCAGAGAACTTCTGCTGCTCAAGCTGGAAGATG 2875
Qy 421 ATGAATTAAGCCGGCAGGACCTTAATTGAGGGCAGCTTCCAGCAGTTCAAGACAGAAAGC 480
Db 2876 ATGAATTAAGCCGGCAGGACCTTAATTGAGGGCAGCTTCCAGCAGTTCAAGACAGAAAGC 2935
Qy 481 ATGTACATAGGGCCTTCAAGAGGGAAATTGAAAATAAAGAACTTAATCATGAGTACTC 540
Db 2936 ATGTACATAGGGCCTTCAAGAGGGAAATTGAAAATAAAGAACTTAATCATGAGTACTC 2995
Qy 541 TTGAGACTGTAAGATATTTCTGACAGAGCAGCTTTGGAAGACTAGAGAACTCTACC 600
Db 2996 TTGAGACTGTAAGATATTTCTGACAGAGCAGCTTTGGAAGACTAGAGAACTCTACC 3055
Qy 601 AGAGCCCAAGAGAGCTGCTCTGAGAGAGAGCCCAAGATGTCATCGGCTTCTACGAA 660
Db 3056 AGAGCCCAAGAGAGCTGCTCTGAGAGAGAGCCCAAGATGTCATCGGCTTCTACGAA 3115
Qy 661 AGCAGGCTGAGAGAGTCAATATCTGAGGAAATTTGAACCTGCACTCCGCTGACTGGC 720
Db 3116 AGCAGGCTGAGAGAGTCAATATCTGAGGAAATTTGAACCTGCACTCCGCTGACTGGC 3175
Qy 721 AGAGAAAATAGATGAGACCCCTTGAAAGAACTCCAGGAACCTTCAAGAGGCCACGGATGAGC 780
Db 3176 AGAGAAAATAGATGAGACCCCTTGAAAGAACTCCAGGAACCTTCAAGAGGCCACGGATGAGC 3235
Qy 781 TGAACCTCAAGCTGCGCCAAAGCTGAGGTGATCAAGGGATCTGCGAGCCCGTGGCGATC 840
Db 3236 TGAACCTCAAGCTGCGCCAAAGCTGAGGTGATCAAGGGATCTGCGAGCCCGTGGCGATC 3295
Qy 841 TCCTCATTTGACTCTCTCCAAAGATCACTCGAGAAAGTCAAGGCACTTGAGAGAAATTG 900
Db 3296 TCCTCATTTGACTCTCTCCAAAGATCACTCGAGAAAGTCAAGGCACTTGAGAGAAATTG 3355
Qy 901 CGCCTGAAAGAGAGAGAGTGAAGCAAGTCAATGACCTTGCTGCGCAGCTTACCATTGG 960
Db 3356 CGCCTGAAAGAGAGAGAGTGAAGCAAGTCAATGACCTTGCTGCGCAGCTTACCATTGG 3415
Qy 961 GCATTAGCTCTCACCGTATTAACCTCAGCACTCTGGAAGACCTGAACACCAAGATGAAGC 1020
Db 3416 GCATTAGCTCTCACCGTATTAACCTCAGCACTCTGGAAGACCTGAACACCAAGATGAAGC 3475
Qy 1021 TTCTGCAAGTGGCCGTCGAGGACCGAGTCAGGCAAGCTGCAATGAAGCCCAAGGACTTTG 1080
Db 3476 TTCTGCAAGTGGCCGTCGAGGACCGAGTCAGGCAAGCTGCAATGAAGCCCAAGGACTTTG 3535
Qy 1081 GTCCAGCATCTCAGCACTTTCTTCCAGCTGTGCCAGGCTCCCTGGAGAGAGCCATCT 1140

Db 3536 GTCCAGCATCTCAGACATTCTTCCACGCTCTGTCCAGGGTCCCTGGGAGAGACCATCT 3595
QY 1141 CGCCAAACAAGTCCCTACTATATCAACACGAGACTCAAAACAATTGCTGGAGCCATC 1200
Db 3596 CGCCAAACAAGTGCCCTACTATATCAACACGAGACTCAAAACAATTGCTGGAGCCATC 3655
QY 1201 CCAAAATGACAGACTCTACAGTCTTTAGCTGACCTGAATTAATGTCAATTCTCAGCTT 1260
Db 3656 CCAAAATGACAGACTCTACAGTCTTTAGCTGACCTGAATTAATGTCAATTCTCAGCTT 3715
QY 1261 ATAGACTGCCATGAAACTCCGAAGACTGACAGAGGCCCTTTGCTTGATCTCTTGAGCC 1320
Db 3716 ATAGACTGCCATGAAACTCCGAAGACTGACAGAGGCCCTTTGCTTGATCTCTTGAGCC 3775
QY 1321 TGTCACTGCAATGTGATGCCCTTGACACGACCAACCTCAAGCAAAATGACCAAGCCATGG 1380
Db 3776 TGTCACTGCAATGTGATGCCCTTGACACGACCAACCTCAAGCAAAATGACCAAGCCATGG 3835
QY 1381 ATATCTGACAGATTATTAATTGTTTGACCACTATTATTATGACCGCTGGAGCAAGACACA 1440
Db 3836 ATATCTGACAGATTATTAATTGTTTGACCACTATTATTATGACCGCTGGAGCAAGACACA 3895
QY 1441 ACAATTTGGTCAACGTCCTCTCTGCGTGATATGTCTGAACCTGGCTGCTGAATGTTT 1500
Db 3896 ACAATTTGGTCAACGTCCTCTCTGCGTGATATGTCTGAACCTGGCTGCTGAATGTTT 3955
QY 1501 A 1501
Db 3956 A 3956

RESULT 6

US-09-845-416-36
; Sequence 36, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845,416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 36
; LENGTH: 5060
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-36

Query Match 99.9%; Score 1499.4; DB 10; Length 5060;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1500; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 AGACTCATAGATTACTGCAACAGTTCCCTGGAACCTGGAAGTTTCTTGCTGCGCTTA 60
Db 2668 ACACCTCATAGATTACTGCAACAGTTCCCTGGAACCTGGAAGTTTCTTGCTGCGCTTA 2727
QY 61 CAGAACTGAAAACAACTGCGCAATGTCCTACAGAGATGCTACCCGTAAGAAAGCTCCTAG 120
Db 2728 CAGAACTGAAAACAACTGCGCAATGTCCTACAGAGATGCTACCCGTAAGAAAGCTCCTAG 2787
QY 121 AAGACTCCAAGGAGTAAGAGCTGATGAAGCAACATGGCAAGACCTCCAAAGTGAATTG 180
Db 2788 AAGACTCCAAGGAGTAAGAGCTGATGAAGCAACATGGCAAGACCTCCAAAGTGAATTG 2847
QY 181 AAGCTCACACAGATGTTTATCAACAACCTGGATGAAGAAACAGCCAAAAAATCTTGAGATCCC 240
Db 2848 AAGCTCACACAGATGTTTATCAACAACCTGGATGAAGAAACAGCCAAAAAATCTTGAGATCCC 2907

QY 241 TGAAGGTTCCGATGATGACAGTCTCTGTTACAAAGACGTTTGATTAACATGAACCTCAAGT 300
Db 2908 TGAAGGTTCCGATGATGACAGTCTCTGTTACAAAGACGTTTGATTAACATGAACCTCAAGT 2967
QY 301 GGAGTGAACCTCGGAAAAAGTCTCTCAACATTAGTCCCATTTGGAAAGCCAGTCTGACC 360
Db 2968 GGAGTGAACCTCGGAAAAAGTCTCTCAACATTAGTCCCATTTGGAAAGCCAGTCTGACC 3027
QY 361 AGTGAAGCGTCTGACCTTTCTCTGACGAACTTCTGTGTGGCTACAGCTGAAGATG 420
Db 3028 AGTGAAGCGTCTGACCTTTCTCTGACGAACTTCTGTGTGGCTACAGCTGAAGATG 3087
QY 421 ATGAATTAAAGCCGGCAGGACCTTAATTGAGGCGACTTTCCAGCAGTTCAGAGCAGAACG 480
Db 3088 ATGAATTAAAGCCGGCAGGACCTTAATTGAGGCGACTTTCCAGCAGTTCAGAGCAGAACG 3147
QY 481 ATGTACATAGGGCCTTCAAGAGGGAATTGAAAATTAAGAACTGTATCATGACTACTC 540
Db 3148 ATGTACATAGGGCCTTCAAGAGGGAATTGAAAATTAAGAACTGTATCATGACTACTC 3207
QY 541 TTGAGACTGTACGAATATTTCTGACAGAGCAGCTTTGGAAAGACTAGAGAACTCTACC 600
Db 3208 TTGAGACTGTACGAATATTTCTGACAGAGCAGCTTTGGAAAGACTAGAGAACTCTACC 3267
QY 601 AGGAGCCCAAGAGAGCTGCTCTCTGAGGAGAGAGCCCAAGATGTCACTCGCTTCTACGAA 660
Db 3268 AGGAGCCCAAGAGAGCTGCTCTCTGAGGAGAGAGCCCAAGATGTCACTCGCTTCTACGAA 3327
QY 661 AGCAGGCTGAGGAGGTCAATACTGAGTGGAAAAATTGAACCTGCACTCGCTGACTGGC 720
Db 3328 AGCAGGCTGAGGAGGTCAATACTGAGTGGAAAAATTGAACCTGCACTCGCTGACTGGC 3387
QY 721 AGAGAAAAATAGATGAGACCTTGAAAGACTCAGGAACCTTCAAGAGGCCAGGATGAGC 780
Db 3388 AGAGAAAAATAGATGAGACCTTGAAAGACTCAGGAACCTTCAAGAGGCCAGGATGAGC 3447
QY 781 TGAACCTCAAGCTGCGCCAAAGCTGAGTGAATCAAGGATCCTGGCAGCCGCTGGCGATC 840
Db 3448 TGAACCTCAAGCTGCGCCAAAGCTGAGTGAATCAAGGATCCTGGCAGCCGCTGGCGATC 3507
QY 841 TCCTCATTTACTCTCTCAAGATCACTCGAAGAAAGTCAAGGCACTTCCAGAGAAATTG 900
Db 3508 TCCTCATTTACTCTCTCAAGATCACTCGAAGAAAGTCAAGGCACTTCCAGAGAAATTG 3567
QY 901 CGCCTCTGAAGAGAAAGTGAAGCAGCTCAATGACCTTGTGCGCAGCTTAACCACTTTGG 960
Db 3568 CGCCTCTGAAGAGAAAGTGAAGCAGCTCAATGACCTTGTGCGCAGCTTAACCACTTTGG 3627
QY 961 GCATTCAAGCTCTCAACCGTATAACCTGACCACTCTGGAAGACCTGAATGAAGC 1020
Db 3628 GCATTCAAGCTCTCAACCGTATAACCTGACCACTCTGGAAGACCTGAATGAAGC 3687
QY 1021 TTCTGAGGTGGCCGCTGAGAGACCGAGTCAAGGAGCTGCAATGAAGCCACAGGACTTTG 1080
Db 3688 TTCTGAGGTGGCCGCTGAGAGACCGAGTCAAGGAGCTGCAATGAAGCCACAGGACTTTG 3747
QY 1081 GTCCAGCATCTCAGCACTTTCTTTCCAAGTGTGTCAGGCTCCCTGGAGAGAGCCATCT 1140
Db 3748 GTCCAGCATCTCAGCACTTTCTTTCCAAGTGTGTCAGGCTCCCTGGAGAGAGCCATCT 3807
QY 1141 CGCCAAACAAGTGCCCTACTATATCAACCAAGAGACTCAAAACAATTGCTGGAGCCATC 1200
Db 3808 CGCCAAACAAGTGCCCTACTATATCAACCAAGAGACTCAAAACAATTGCTGGAGCCATC 3867
QY 1201 CCAAAATGACAGAGCTCTACAGTCTTTAGCTGACCTGAATAATGTCAAGTCTCAGCTT 1260
Db 3868 CCAAAATGACAGAGCTCTACAGTCTTTAGCTGACCTGAATAATGTCAAGTCTCAGCTT 3927
QY 1261 ATAGACTGCCATGAAACTCCGAAGACTGACAGAGGCCCTTGTGTTGATCTCTTGAGCC 1320
Db 3928 ATAGACTGCCATGAAACTCCGAAGACTGACAGAGGCCCTTGTGTTGATCTCTTGAGCC 3987
QY 1321 TGTCACTGCAATGTGATGCTTGGACCAAGCAACCTCAAGCAAAATGACCAAGCCCATGG 1380

Db 3988 TGTCACTGCAATGTGATGCTTGGACCAGACACCACTCAAGCAAAATGACAGCCCATGG 4047
QY 1381 ATATCCTGCAGATTATTAATTTGTTGACCACATTTATGACCGCCTGGAGCAAGACACA 1440
Db 4048 ATATCCTGCAGATTATTAATTTGTTGACCACATTTATGACCGCCTGGAGCAAGACACA 4107
QY 1441 ACAATTTGGTCAACGTCCTCTCTGCGTGATATGTCTGAACTGGCTGTAATGTTT 1500
Db 4108 ACAATTTGGTCAACGTCCTCTCTGCGTGATATGTCTGAACTGGCTGTAATGTTT 4167
QY 1501 A 1501
Db 4168 A 4168

RESULT 7
US-10-149-736-42
; Sequence 42, Application US/10149736
; Publication No. US20030216332A1
; GENERAL INFORMATION:
; APPLICANT: Chamberlain, Jeffrey S.
; APPLICANT: Harper, Scott O.
; TITLE OF INVENTION: Mini-Dystrophin Nucleic Acids and Peptide Sequences
; FILE REFERENCE: UM-06968
; CURRENT APPLICATION NUMBER: US/10/149,736
; PRIOR APPLICATION NUMBER: PCT/US01/31126
; PRIOR FILING DATE: 2001-10-04
; PRIOR APPLICATION NUMBER: 60/238,848
; PRIOR FILING DATE: 2000-10-06
; NUMBER OF SEQ ID NOS: 96
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 42
; LENGTH: 8689
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic
US-10-149-736-42

Query Match 99.9%; Score 1499.4; DB 17; Length 8689;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1500; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 AGACTCATAGTACTGCAACAGTTCCCTGGACCTGAAAAGTTCTTGCTGCTTA 60
Db 2997 AAACATCATGATTACTGCAACAGTTCCCTGGACCTGAAAAGTTCTTGCTGCTTA 3056
QY 61 CAGAGCTGAAACAACCTGCCAATGTCTTACAGATGCTACCCGTAAGAAAGCTCCTAG 120
Db 3057 CAGAGCTGAAACAACCTGCCAATGTCTTACAGATGCTACCCGTAAGAAAGCTCCTAG 3116
QY 121 AAGACTCCAAGGAGTAAAGAGCTGATGAACAATGGCAAGACCTCCAAGTGAATTG 180
Db 3117 AAGACTCCAAGGAGTAAAGAGCTGATGAACAATGGCAAGACCTCCAAGTGAATTG 3176
QY 181 AAGCTCACACAGATGTTTATCACAACTGGATGAACAGCCAAAAATCCTGAGATCCC 240
Db 3177 AAGCTCACACAGATGTTTATCACAACTGGATGAACAGCCAAAAATCCTGAGATCCC 3236
QY 241 TGGAAAGTTCGATGATGAGTCCCTGTTACAAAGAGCTTTGGATTAACATGAACCTCAAGT 300
Db 3237 TGGAAAGTTCGATGATGAGTCCCTGTTACAAAGAGCTTTGGATTAACATGAACCTCAAGT 3296
QY 301 GGAGTGAACCTCGAAAAAGTCTCTCAACATTAAGTCCCATTTGGAAGCAGTTCTGACC 360
Db 3297 GGAGTGAACCTCGAAAAAGTCTCTCAACATTAAGTCCCATTTGGAAGCAGTTCTGACC 3356
QY 361 AGTGAAGGCTTGACACCTTCTCTGACAGAACTTCTGTGTGCTACAGCTGAAGATG 420
Db 3357 AGTGAAGGCTTGACACCTTCTCTGACAGAACTTCTGTGTGCTACAGCTGAAGATG 3416

QY 421 ATGAATTAAGCCGGCAGGACCACTTATTGAGGCGCACTTCCAGCAGTTCAAGACAGAACG 480
Db 3417 ATGAATTAAGCCGGCAGGACCACTTATTGAGGCGCACTTCCAGCAGTTCAAGACAGAACG 3476
QY 481 ATGTACATAGGCGCTTCAAGAGGGAATGAAAACTAAGAACCTGTATCATGACTC 540
Db 3477 ATGTACATAGGCGCTTCAAGAGGGAATGAAAACTAAGAACCTGTATCATGACTC 3536
QY 541 TTGAGACTGTACGAATATTTCTGACAGACGCTTTGGAAGGACTGAGAACTCTACC 600
Db 3537 TTGAGACTGTACGAATATTTCTGACAGACGCTTTGGAAGGACTGAGAACTCTACC 3596
QY 601 AGAGCCCAAGAGCTGCTCCTGAGAGAGAGCCCAAGATGTCACTCGGCTTCTACGAA 660
Db 3597 AGAGCCCAAGAGCTGCTCCTGAGAGAGAGCCCAAGATGTCACTCGGCTTCTACGAA 3656
QY 661 AGCAGGCTGAGAGGTCATATCTGAGTGGGAAAAATTGAACCTGCACTCCGCTGACTGGC 720
Db 3657 AGCAGGCTGAGAGGTCATATCTGAGTGGGAAAAATTGAACCTGCACTCCGCTGACTGGC 3716
QY 721 AGAGAAAAATAGATGAGACCCCTTGAAAGACTCCAGAACTTCAAGAGCCACGATGAGC 780
Db 3717 AGAGAAAAATAGATGAGACCCCTTGAAAGACTCCAGAACTTCAAGAGCCACGATGAGC 3776
QY 781 TGACCTCAAGCTGCGCCCAAGCTGAGGTGATCAAGGATCCTGGCAGCCGCGGCGATC 840
Db 3777 TGACCTCAAGCTGCGCCCAAGCTGAGGTGATCAAGGATCCTGGCAGCCGCGGCGATC 3836
QY 841 TCCTCATTTGACTCTCTCCAGATCACTTCGAGAAAGTCAAGGCACTTCGAGAGAAATTG 900
Db 3837 TCCTCATTTGACTCTCTCCAGATCACTTCGAGAAAGTCAAGGCACTTCGAGAGAAATTG 3896
QY 901 CGCCTGTGAAAGAGAACGTGAGCCAGTCAATGACCTTGCTCGCCAGCTTACCACCTTGG 960
Db 3897 CGCCTGTGAAAGAGAACGTGAGCCAGTCAATGACCTTGCTCGCCAGCTTACCACCTTGG 3956
QY 961 GCATTACGCTCTACCCGTATTAACCTGACCACTCTGGAAGACCTGAACCAAGATGAAGC 1020
Db 3957 GCATTACGCTCTACCCGTATTAACCTGACCACTCTGGAAGACCTGAACCAAGATGAAGC 4016
QY 1021 TTCTGAGGTGGCCGTGAGAGCCGAGTCAAGCAGCTGCATGAAGCCCAAGGACTTTG 1080
Db 4017 TTCTGAGGTGGCCGTGAGAGCCGAGTCAAGCAGCTGCATGAAGCCCAAGGACTTTG 4076
QY 1081 GTCCAGCATCTCAGCACTTTCTTCCAGCTGTGCCAGGCTCCCTGGAGAGAGCCATCT 1140
Db 4077 GTCCAGCATCTCAGCACTTTCTTCCAGCTGTGCCAGGCTCCCTGGAGAGAGCCATCT 4136
QY 1141 CGCCAAACAAAGTCCCTACTATATCAACCAAGAGACTCAAAACAATTGCTGGGACATC 1200
Db 4137 CGCCAAACAAAGTCCCTACTATATCAACCAAGAGACTCAAAACAATTGCTGGGACATC 4196
QY 1201 CCAAAATGACAGAGCTTACCAAGTCTTTAGCTGACCTGAATATATGATTTCTCAGCTT 1260
Db 4197 CCAAAATGACAGAGCTTACCAAGTCTTTAGCTGACCTGAATATATGATTTCTCAGCTT 4256
QY 1261 ATAGAGCTGCATGAAGCTCCGAAGACTGCAAGAGGCCCTTTGCTTGATCTCTGAGCC 1320
Db 4257 ATAGAGCTGCATGAAGCTCCGAAGACTGCAAGAGGCCCTTTGCTTGATCTCTGAGCC 4316
QY 1321 TGTCACTGCATGTGATGCTTGAACCAAGCAACCTCAAGCAAAATGACAGCCCATGG 1380
Db 4317 TGTCACTGCATGTGATGCTTGAACCAAGCAACCTCAAGCAAAATGACAGCCCATGG 4376
QY 1381 ATATCTTCGAGATTATTAATTTGTTGACCACTATTATGACCCGCTGGAAGAGACACA 1440
Db 4377 ATATCTTCGAGATTATTAATTTGTTGACCACTATTATGACCCGCTGGAAGAGACACA 4436
QY 1441 ACAATTTGGTCAACGTCCTCTCTGCGTGATATGTGTGAACTGGCTGTAATGTTT 1500
Db 4437 ACAATTTGGTCAACGTCCTCTCTGCGTGATATGTGTGAACTGGCTGTAATGTTT 4496
QY 1501 A 1501

Db 4497 A 4497

RESULT 8

US-09-845-416-1

; Sequence 1, Application US/09845416

; Publication No. US20030171312A1

; GENERAL INFORMATION:

; APPLICANT: XIAO, XIAO

; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE

; TITLE OF INVENTION: THEREOF

; FILE REFERENCE: DE1142

; CURRENT APPLICATION NUMBER: US/09/845,416

; CURRENT FILING DATE: 2001-04-30

; PRIOR APPLICATION NUMBER: 60/200,777

; PRIOR FILING DATE: 2000-04-28

; NUMBER OF SEQ ID NOS: 36

; SOFTWARE: PatentIn Ver. 2.1

; SEQ ID NO 1

; LENGTH: 11058

; TYPE: DNA

; ORGANISM: Homo sapiens

; US-09-845-416-1

Query Match 99.9%; Score 1499.4; DB 10; Length 11058;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1500; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 AGACTCATAGATTACTGCAACAGTTCCTGACCTGGAAGTTTCTTGCTGGCTTA 60
Db 8057 AACTCATAGATTACTGCAACAGTTCCTGACCTGGAAGTTTCTTGCTGGCTTA 8116
QY 61 CAGAACTGAAACAACCTGCAATGCTCTACAGAGTGTACCCGTAAGAAAGCTCCTAG 120
Db 8117 CAGAACTGAAACAACCTGCAATGCTCTACAGAGTGTACCCGTAAGAAAGCTCCTAG 8176
QY 121 AAGACTCCAAGGAGTAAAGAGCTGATGAACAATGGCAAGACCTCCAGGTGAATTG 180
Db 8177 AAGACTCCAAGGAGTAAAGAGCTGATGAACAATGGCAAGACCTCCAGGTGAATTG 8236
QY 181 AAGCTCACACAGATGTTATCAACAACCTGATGAAGAAACAGCCAAAATCCTGAGATCCC 240
Db 8237 AAGCTCACACAGATGTTATCAACAACCTGATGAAGAAACAGCCAAAATCCTGAGATCCC 8296
QY 241 TGAAGAGTCCGATGATGCACTCTGTTACAAGACGTTTGGATTAACATGAACCTTCAAGT 300
Db 8297 TGAAGAGTCCGATGATGCACTCTGTTACAAGACGTTTGGATTAACATGAACCTTCAAGT 8356
QY 301 GGAGTGAACCTCGGAAAAAGTCTCTCAACATTAAGTCCCATTTGGAAGCCAGTTCTGACC 360
Db 8357 GGAGTGAACCTCGGAAAAAGTCTCTCAACATTAAGTCCCATTTGGAAGCCAGTTCTGACC 8416
QY 361 AGTGAAGCGTCTGCACTTCTCTGCAAGAACTTCTGGTGTGCTACAGCTGAAAGATG 420
Db 8417 AGTGAAGCGTCTGCACTTCTCTGCAAGAACTTCTGGTGTGCTACAGCTGAAAGATG 8476
QY 421 ATGAATTAAGCCGCAAGCACCATTGGAAGCGCACTTCCAGCAGTTCAGAAAGCAAGC 480
Db 8477 ATGAATTAAGCCGCAAGCACCATTGGAAGCGCACTTCCAGCAGTTCAGAAAGCAAGC 8536
QY 481 ATGATCATAGGCGCTTCAAGAGGGAATTGAAAACTAAAGAACTGTATCATGATGACTC 540
Db 8537 ATGATCATAGGCGCTTCAAGAGGGAATTGAAAACTAAAGAACTGTATCATGATGACTC 8596
QY 541 TTGAGACTGTACGAATATTTCTGACAGAGCAGCCTTTGGAAGACTAGAGAAACTCTACC 600
Db 8597 TTGAGACTGTACGAATATTTCTGACAGAGCAGCCTTTGGAAGACTAGAGAAACTCTACC 8656
QY 601 AGGAGCCCAAGAGAGCTGCTCTGAGAGAGAGAGCCCAAGATGTCACTCGGCTTCTACGAA 660
Db 8657 AGGAGCCCAAGAGAGCTGCTCTGAGAGAGAGAGCCCAAGATGTCACTCGGCTTCTACGAA 8716

QY 661 AGCAGCTGAGAGGCTCAATACTGAGTGGGAAAAATTGAACCTGCACTCCGCTGACTGGC 720
Db 8717 AGCAGCTGAGAGGCTCAATACTGAGTGGGAAAAATTGAACCTGCACTCCGCTGACTGGC 8776
QY 721 AGAGAAAAATAGATGAGAACCTTGAAGAATCCAGGAACCTTCAAGAGGCCACGATGAGC 780
Db 8777 AGAGAAAAATAGATGAGAACCTTGAAGAATCCAGGAACCTTCAAGAGGCCACGATGAGC 8836
QY 781 TGGACCTCAAGCTGCGCCCAAGCTGAGTGTATCAAGGATCTCTGGCAGCCCGTGGCGATC 840
Db 8837 TGGACCTCAAGCTGCGCCCAAGCTGAGTGTATCAAGGATCTCTGGCAGCCCGTGGCGATC 8896
QY 841 TCCTCATGACTCTCTCCAGATCACTCCAGAAAGTCAAGGCACTTCGAGAGAAATTG 900
Db 8897 TCCTCATGACTCTCTCCAGATCACTCCAGAAAGTCAAGGCACTTCGAGAGAAATTG 8956
QY 901 CGCCTCTGAAGAAGAACGTGAGCCAGTCAATGACCTTGCTCGCCAGCTTACCACTTTGG 960
Db 8957 CGCCTCTGAAGAAGAACGTGAGCCAGTCAATGACCTTGCTCGCCAGCTTACCACTTTGG 9016
QY 961 GCATTACGCTCTCAACCGTATTAACCTCAGACCTTGGAAGACCTGAACACCAAGATGAAGC 1020
Db 9017 GCATTACGCTCTCAACCGTATTAACCTCAGACCTTGGAAGACCTGAACACCAAGATGAAGC 9076
QY 1021 TTCTGCAAGTGGCCGTCGAGGACCGAGTCAGGCACTGATGAAGCCCAAGGACTTTTG 1080
Db 9077 TTCTGCAAGTGGCCGTCGAGGACCGAGTCAGGCACTGATGAAGCCCAAGGACTTTTG 9136
QY 1081 GTCCAGCATCTCAGCACTTTCTTTCACAGTCTGTCCAGGGTCCCTGGGAGAGACCATCT 1140
Db 9137 GTCCAGCATCTCAGCACTTTCTTTCACAGTCTGTCCAGGGTCCCTGGGAGAGACCATCT 9196
QY 1141 CGCCAAACAAAAGTCCCTTACTATATCAACACAGAGACTCAAAACAACCTTGCTGGAGCATC 1200
Db 9197 CGCCAAACAAAAGTCCCTTACTATATCAACACAGAGACTCAAAACAACCTTGCTGGAGCATC 9256
QY 1201 CCAAAATGACAGAGCTCTACCAAGTCTTTAGCTGACCTGAATATGTCAAGTTCTCAGCTT 1260
Db 9257 CCAAAATGACAGAGCTCTACCAAGTCTTTAGCTGACCTGAATATGTCAAGTTCTCAGCTT 9316
QY 1261 ATAGGACTGCCATGAAGAACTCCGAAGACTGCAAGAGCCCTTGTGATCTCTGAGCC 1320
Db 9317 ATAGGACTGCCATGAAGAACTCCGAAGACTGCAAGAGCCCTTGTGATCTCTGAGCC 9376
QY 1321 TGTCAAGTGCATGTGATGCTTGGACCAACAACCTCAAGCAAAATGACCAAGCCCATGG 1380
Db 9377 TGTCAAGTGCATGTGATGCTTGGACCAACAACCTCAAGCAAAATGACCAAGCCCATGG 9436
QY 1381 ATATCCTGCAGATTATTAATGTTTGAACCACTATTATGACCCGCTGAGCAAGAGACA 1440
Db 9437 ATATCCTGCAGATTATTAATGTTTGAACCACTATTATGACCCGCTGAGCAAGAGACA 9496
QY 1441 ACAATTTGTCAAGCTCCCTCTCTGGGTGATATGTGTGAACTGGCTGTAATGTTT 1500
Db 9497 ACAATTTGTCAAGCTCCCTCTCTGGGTGATATGTGTGAACTGGCTGTAATGTTT 9556
QY 1501 A 1501
Db 9557 A 9557

RESULT 9

US-10-149-736-44

; Sequence 44, Application US/10149736

; Publication No. US20030216332A1

; GENERAL INFORMATION:

; APPLICANT: Chamberlain, Jeffrey S.

; APPLICANT: Harper, Scott O.

; TITLE OF INVENTION: Mini-Dystrophin Nucleic Acids and Peptide Sequences

; FILE REFERENCE: UM-06968

; CURRENT APPLICATION NUMBER: US/10/149,736

; CURRENT FILING DATE: 2002-06-17

; PRIOR APPLICATION NUMBER: PCT/US01/31126

; PRIOR FILING DATE: 2001-10-04
; PRIOR APPLICATION NUMBER: 60/238,848
; PRIOR FILING DATE: 2000-10-06
; NUMBER OF SEQ ID NOS: 96
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 44
; LENGTH: 11443
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic
US-10-149-736-44

Query Match 99.9%; Score 1499.4; DB 17; Length 11443;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1500; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 AGACTCATAGATTACTGCACAGTTCCCTTGACCTGGAAGTTTCTTGCTGCTTA 60
Db 5751 AAACCTCATAGATTACTGCACAGTTCCCTTGACCTGGAAGTTTCTTGCTGCTTA 5810
QY 61 CAGAGCTGAAACAACCTGCCAATGTCTTACAGGATGCTACCCCTGAAGAAAGGCTCCTAG 120
Db 5811 CAGAGCTGAAACAACCTGCCAATGTCTTACAGGATGCTACCCCTGAAGAAAGGCTCCTAG 5870
QY 121 AAGACTCCAAAGGAGTAAAGAGCTGATGAAACAATGGCAAGACCTCCAAAGTGAATTG 180
Db 5871 AAGACTCCAAAGGAGTAAAGAGCTGATGAAACAATGGCAAGACCTCCAAAGTGAATTG 5930
QY 181 AAGCTCACACAGATGTTTATCAACAACCTGGATGAAACAGCCAAATAATCCTGAGATCCC 240
Db 5931 AAGCTCACACAGATGTTTATCAACAACCTGGATGAAACAGCCAAATAATCCTGAGATCCC 5990
QY 241 TGGAGGTTCCGATGATGACAGTCCCTGTTACAAGACGTTTGATTAACATGAACCTCAAGT 300
Db 5991 TGGAGGTTCCGATGATGACAGTCCCTGTTACAAGACGTTTGATTAACATGAACCTCAAGT 6050
QY 301 GGAATGAACTTCGAAAAAGTCTCTCAACATTAAGTCCCATTTGGAAAGCCAGTCTGACC 360
Db 6051 GGAATGAACTTCGAAAAAGTCTCTCAACATTAAGTCCCATTTGGAAAGCCAGTCTGACC 6110
QY 361 AGTGAAGCGTCTGCACCTTCTCTGAGGAACCTTCTGTGTGCTACAGCTGAAAGATG 420
Db 6111 AGTGAAGCGTCTGCACCTTCTCTGAGGAACCTTCTGTGTGCTACAGCTGAAAGATG 6170
QY 421 ATGAATTAAAGCCGACAGCACTTAATGAGGCGACTTCCAGCACTTCAGAAAGCAGAACG 480
Db 6171 ATGAATTAAAGCCGACAGCACTTAATGAGGCGACTTCCAGCACTTCAGAAAGCAGAACG 6230
QY 481 ATGTACATAGGGCTTCAGAGGGAATTGAATACTAAGAACCTGTATCATGAGTACTC 540
Db 6231 ATGTACATAGGGCTTCAGAGGGAATTGAATACTAAGAACCTGTATCATGAGTACTC 6290
QY 541 TTGAGACTGTACGAATATTTCTGACAGACAGCCTTTGGAAAGACTAGAGAACTCTACC 600
Db 6291 TTGAGACTGTACGAATATTTCTGACAGACAGCCTTTGGAAAGACTAGAGAACTCTACC 6350
QY 601 AGAGCCCAAGAGAGCTGCTCTGAGAGAGAGCCCAAGATGTCACTCGGCTTCTACGAA 660
Db 6351 AGAGCCCAAGAGAGCTGCTCTGAGAGAGAGCCCAAGATGTCACTCGGCTTCTACGAA 6410
QY 661 AGCAGGCTGAGAGGTCAATACTGAGTGGAAAAAATTGAACCTGCACTCCGCTGACTGGC 720
Db 6411 AGCAGGCTGAGAGGTCAATACTGAGTGGAAAAAATTGAACCTGCACTCCGCTGACTGGC 6470
QY 721 AGAGAAAAATAGATGAGACCCCTTGAAGAAGCTCCAGGAAGCTTCAAGAGGCCACGATGAGC 780
Db 6471 AGAGAAAAATAGATGAGACCCCTTGAAGAAGCTCCAGGAAGCTTCAAGAGGCCACGATGAGC 6530
QY 781 TGGACCTCAAGCTGCGCCCAAGCTGAGGTGATCAAGGGATCCTGGGACCCGCTGGCGATC 840
Db 6531 TGGACCTCAAGCTGCGCCCAAGCTGAGGTGATCAAGGGATCCTGGGACCCGCTGGCGATC 6590

QY 841 TCCTCATTTACTCTCTCCAAAGATCACTCGAGAAAGTCAAGGCACTTCGAGGAGAAATTG 900
Db 6591 TCCTCATTTACTCTCTCCAAAGATCACTCGAGAAAGTCAAGGCACTTCGAGGAGAAATTG 6650
QY 901 CGCCTGTGAAGAAGAACGTGAGCCAGCTCAATGACCTTGCTGCCAGCTTACCACTTTGG 960
Db 6651 CGCCTGTGAAGAAGAACGTGAGCCAGCTCAATGACCTTGCTGCCAGCTTACCACTTTGG 6710
QY 961 GCATTGAGCTCTCACCGTATTAACCTCAGCACTCTGGAAGACCTGAACACAGATGAAGC 1020
Db 6711 GCATTGAGCTCTCACCGTATTAACCTCAGCACTCTGGAAGACCTGAACACAGATGAAGC 6770
QY 1021 TTCTGCAAGTGGCCGCTCGAGGACCGAGTCAAGGCAAGCTGCATGAAGCCCAAGGACTTTG 1080
Db 6771 TTCTGCAAGTGGCCGCTCGAGGACCGAGTCAAGGCAAGCTGCATGAAGCCCAAGGACTTTG 6830
QY 1081 GTCCAGCATCTCAGCACTTCTTTTCCACGCTGTCTGCCAGGCTCCTGGAGAGAGCCATCT 1140
Db 6831 GTCCAGCATCTCAGCACTTCTTTTCCACGCTGTCTGCCAGGCTCCTGGAGAGAGCCATCT 6890
QY 1141 CGCCAAACAAGTGCCCTACTATATCAACACAGAGACTCAACAACCTTGCTGGAGCCATC 1200
Db 6891 CGCCAAACAAGTGCCCTACTATATCAACACAGAGACTCAACAACCTTGCTGGAGCCATC 6950
QY 1201 CCAAAATGACAGAGCTCTACCACTCTTTAGCTGACCTGAATTAATGTCAATTTCTCAGCTT 1260
Db 6951 CCAAAATGACAGAGCTCTACCACTCTTTAGCTGACCTGAATTAATGTCAATTTCTCAGCTT 7010
QY 1261 ATAGAGTGCATGAAACTCCGAGACTGACAGAAAGGCCCTTGCTTGATCTCTTGAGCC 1320
Db 7011 ATAGAGTGCATGAAACTCCGAGACTGACAGAAAGGCCCTTGCTTGATCTCTTGAGCC 7070
QY 1321 TGTCACTGCATGTGATGCTTGGACCAAGCACAACCTCAAGCAAAATGACCAAGCCCATGG 1380
Db 7071 TGTCACTGCATGTGATGCTTGGACCAAGCACAACCTCAAGCAAAATGACCAAGCCCATGG 7130
QY 1381 ATATCTGCAGATTATTAATGTTGACCACTATTATGACCGCCTGGAGCAAGAGCACA 1440
Db 7131 ATATCTGCAGATTATTAATGTTGACCACTATTATGACCGCCTGGAGCAAGAGCACA 7190
QY 1441 ACAATTGGTCAACGTCCTCTGCTGCTGATATGTGTGAACCTGGCTGTAATGTTT 1500
Db 7191 ACAATTGGTCAACGTCCTCTGCTGCTGATATGTGTGAACCTGGCTGTAATGTTT 7250
QY 1501 A 1501
Db 7251 A 7251

RESULT 10

US-10-149-736-47
; Sequence 47, Application US/10149736
; Publication No. US20030216332A1
; GENERAL INFORMATION:
; APPLICANT: Chamberlain, Jeffrey S.
; APPLICANT: Harper, Scott Q.
; TITLE OF INVENTION: Mini-Dystrophin Nucleic Acids and Peptide Sequences
; FILE REFERENCE: US-06968
; CURRENT APPLICATION NUMBER: US/10/149,736
; PRIOR FILING DATE: 2002-06-17
; PRIOR APPLICATION NUMBER: PCT/US01/31126
; PRIOR FILING DATE: 2001-10-04
; PRIOR APPLICATION NUMBER: 60/238,848
; NUMBER OF SEQ ID NOS: 96
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 47
; LENGTH: 12057
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic
US-10-149-736-47

Query Match 99.9%; Score 1499.4; DB 17; Length 12057;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1500; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY	1	AGACTCATAGATTACTGCAACAGTTCCCTGGACCTGGAAAAAGTTTCTTGCCCTGGCTTA	60
Db	8265	AAACTCATAGATTACTGCAACAGTTCCCTGGACCTGGAAAAAGTTTCTTGCCCTGGCTTA	8324
QY	61	CAGAACTGAAACAACCTGCCAATGTCCTACAGAGTGTACCCGTAAGAAAAAGCTCCTAG	120
Db	8325	CAGAACTGAAACAACCTGCCAATGTCCTACAGAGTGTACCCGTAAGAAAAAGCTCCTAG	8384
QY	121	AAGACTCAAGGGAGTAAAAAGAGCTGATGAAACAATGGCAAGACCTCCAAAGTGAAATTG	180
Db	8385	AAGACTCCAAGGGAGTAAAAAGAGCTGATGAAACAATGGCAAGACCTCCAAAGTGAAATTG	8444
QY	181	AAGCTCACACAGATGTTTATCACAACCTGGATGAAAAACAGCCAAAAAATCCTGAGATCCC	240
Db	8445	AAGCTCACACAGATGTTTATCACAACCTGGATGAAAAACAGCCAAAAAATCCTGAGATCCC	8504
QY	241	TGGAAGGTTCCGATGATGACAGTCTGTTTACAAAGACGTTTGATATACATGAATTCAGT	300
Db	8505	TGGAAGGTTCCGATGATGACAGTCTGTTTACAAAGACGTTTGATATACATGAATTCAGT	8564
QY	301	GGAAGTGAACCTTCGAAAAAGTCTCTCAACATTAGTCCCATTTGGAAAGCCAGTTCTGACC	360
Db	8565	GGAAGTGAACCTTCGAAAAAGTCTCTCAACATTAGTCCCATTTGGAAAGCCAGTTCTGACC	8624
QY	361	AGTGAAGCGCTGACACCTTTCTCTGCAGGAACCTTCTGGTGTGGCTACAGCTGAAAAAGT	420
Db	8625	AGTGAAGCGCTGACACCTTTCTCTGCAGGAACCTTCTGGTGTGGCTACAGCTGAAAAAGT	8684
QY	421	ATGAATTAAGCCGGCAGGCAACCTATTGGAGGCCACTTCCAGCAGTTCAAGACAGAAACG	480
Db	8685	ATGAATTAAGCCGGCAGGCAACCTATTGGAGGCCACTTCCAGCAGTTCAAGACAGAAACG	8744
QY	481	ATGTACATAGGGCTTCAAGAGGGAATTGAAAACTAAAGAACCTGTAATCATGAGTACTC	540
Db	8745	ATGTACATAGGGCTTCAAGAGGGAATTGAAAACTAAAGAACCTGTAATCATGAGTACTC	8804
QY	541	TTGAGACTGTACGAATATTTCTGCAGAGACGCTTTGGAAGACTAGAGAAACTCTACC	600
Db	8805	TTGAGACTGTACGAATATTTCTGCAGAGACGCTTTGGAAGACTAGAGAAACTCTACC	8864
QY	601	AGGAGCCCAAGACCTGCTCTGAGAGAGAGCCCAAGATGCACTCGGCTTCTACGAA	660
Db	8865	AGGAGCCCAAGACCTGCTCTGAGAGAGAGCCCAAGATGCACTCGGCTTCTACGAA	8924
QY	661	AGCAGGCTGAGAGGTCATATCTGAGTGGGAAAAATTGAACTGCACTCCGCTGACTGGC	720
Db	8925	AGCAGGCTGAGAGGTCATATCTGAGTGGGAAAAATTGAACTGCACTCCGCTGACTGGC	8984
QY	721	AGAGAAAAATAGATGAGACCCCTTGAAAAAGCTCCAGGAACCTCAAGAGCCACGATGAGC	780
Db	8985	AGAGAAAAATAGATGAGACCCCTTGAAAAAGCTCCAGGAACCTCAAGAGCCACGATGAGC	9044
QY	781	TGGACCTCAAGCTGCGCCAAAGCTGAGTGATCAAGGGATCCTGGACAGCCCGTGGCGATC	840
Db	9045	TGGACCTCAAGCTGCGCCAAAGCTGAGTGATCAAGGGATCCTGGACAGCCCGTGGCGATC	9104
QY	841	TCCTCATGTAATCTCTCCAAAGATCACTCGAGAAAGTCAAGGCACTTCGAGGAGAAAAATTG	900
Db	9105	TCCTCATGTAATCTCTCCAAAGATCACTCGAGAAAGTCAAGGCACTTCGAGGAGAAAAATTG	9164
QY	901	CGCCTCTGAAAAGAGAACGTGAGCCACGTCAATGACCTTGCTGCGCAGCTTAACACTTTGG	960
Db	9165	CGCCTCTGAAAAGAGAACGTGAGCCACGTCAATGACCTTGCTGCGCAGCTTAACACTTTGG	9224
QY	961	GCATTACAGCTCTCACCCGTATTAACCTCAGCACTCTGGAAGAGCCTGAAACACAGATGGAAGC	1020
Db	9225	GCATTACAGCTCTCACCCGTATTAACCTCAGCACTCTGGAAGAGCCTGAAACACAGATGGAAGC	9284

QY	1021	TTCTGAGGTGGCCGTCGAGGACCGAGTCAAGGCAGCTGCATGTAAGCCCAAGGACTTTG	1080
Db	9285	TTCTGAGGTGGCCGTCGAGGACCGAGTCAAGGCAGCTGCATGTAAGCCCAAGGACTTTG	9344
QY	1081	GTCCAGCATCTGACACTTTCTTTCCACGTCCTGTGCCAGGGTCCCTGGGAGAGAGCCATCT	1140
Db	9345	GTCCAGCATCTGACACTTTCTTTCCACGTCCTGTGCCAGGGTCCCTGGGAGAGAGCCATCT	9404
QY	1141	CGCCAAACAAGTGGCCCTACTATATCAACACAGAGACTCAACAACTTGCTGGGAGCATC	1200
Db	9405	CGCCAAACAAGTGGCCCTACTATATCAACACAGAGACTCAACAACTTGCTGGGAGCATC	9464
QY	1201	CCAAAAATGACAGAGCTCTACCAAGTCTTTAGCTGACCTGAATTAATGTCAGATTCTCAGCTT	1260
Db	9465	CCAAAAATGACAGAGCTCTACCAAGTCTTTAGCTGACCTGAATTAATGTCAGATTCTCAGCTT	9524
QY	1261	ATAGACTGECATGAAACTCCGAGACTGCAGAAAGGCCCTTTGCTTGATCTCTTGAGCC	1320
Db	9525	ATAGACTGECATGAAACTCCGAGACTGCAGAAAGGCCCTTTGCTTGATCTCTTGAGCC	9584
QY	1321	TGTCAGTGCATGTGATGCTTGGACCAAGCAACCTCAAGCAAAATGACCAAGCCCATGG	1380
Db	9585	TGTCAGTGCATGTGATGCTTGGACCAAGCAACCTCAAGCAAAATGACCAAGCCCATGG	9644
QY	1381	ATATCTGCAGATTATTAATGTTTGGACCACTATTATGACCGCCTGGAGCAAGACACA	1440
Db	9645	ATATCTGCAGATTATTAATGTTTGGACCACTATTATGACCGCCTGGAGCAAGACACA	9704
QY	1441	ACAAATTGTCCAACGTCCTCTCTGCGTGATATGTCTGAACCTGGCTGTAATGTTT	1500
Db	9705	ACAAATTGTCCAACGTCCTCTCTGCGTGATATGTCTGAACCTGGCTGTAATGTTT	9764
QY	1501	A 1501	
Db	9765	A 9765	

RESULT 11
US-09-782-378A-22
; Sequence 22, Application US/09782378A
; Patent No. US20020102731A1
; GENERAL INFORMATION:
; APPLICANT: Hearing, Patrick
; APPLICANT: Bahou, Madie
; APPLICANT: Sandalon, Ziv
; APPLICANT: Gnatenko, Dmitri
; TITLE OF INVENTION: Adenoviral Vectors
; FILE REFERENCE: STONYB-04970
; CURRENT APPLICATION NUMBER: US/09/782,378A
; PRIOR FILING DATE: 2001-02-12
; PRIOR APPLICATION NUMBER: 60/237,747
; PRIOR FILING DATE: 2000-10-02
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 22
; LENGTH: 13957
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-782-378A-22

Query Match 99.9%; Score 1499.4; DB 9; Length 13957;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1500; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY	1	AGACTCATAGATTACTGCAACAGTTCCCTGGACCTGGAAGTTTCTTGCCCTGGCTTA	60
Db	8265	AAACTCATAGATTACTGCAACAGTTCCCTGGACCTGGAAGTTTCTTGCCCTGGCTTA	8324
QY	61	CAGAACTGAAACAACCTGCCAATGTCCTACAGAGTGTCTAACCCGTAAGAAAGCTCCTAG	120
Db	8325	CAGAACTGAAACAACCTGCCAATGTCCTACAGAGTGTCTAACCCGTAAGAAAGCTCCTAG	8384
QY	121	AAGACTCCAAGGAGTAAAGAGCTGATGAAACAATGGCAAGACCTCCAAAGTGAAATTG	180

Db 8385 AAGACTCCAAGGAGTAATAAGCTGATGAACAATGSCAAGACCTCCAAGGTGAATTTG 8444

QY 181 AAGCTCACACAGATGTTTATCAACAACCTGGATGAAAACAGCCAAAATAATCCTGAGATCCC 240

Db 8445 AAGCTCACACAGATGTTTATCAACAACCTGGATGAAAACAGCCAAAATAATCCTGAGATCCC 8504

QY 241 TGGAAAGGTTCCGATGATGACGTCTGTTACAAAGACGTTTGATTAACATGAACCTTCAAGT 300

Db 8505 TGGAAAGGTTCCGATGATGACGTCTGTTACAAAGACGTTTGATTAACATGAACCTTCAAGT 8564

QY 301 GGAGTGAACCTTCGAAAAAGTCTCAACATTAGTCCCATTTGGAAGCCAGTTCTGACC 360

Db 8565 GGAGTGAACCTTCGAAAAAGTCTCAACATTAGTCCCATTTGGAAGCCAGTTCTGACC 8624

QY 361 AGTGAAGCGCTGACACCTTCTCTGACAGGAACCTTGTGTGGCTACAGCTGAAAAGATG 420

Db 8625 AGTGAAGCGCTGACACCTTCTCTGACAGGAACCTTGTGTGGCTACAGCTGAAAAGATG 8684

QY 421 ATGAATTAAAGCCGGCAGCACCCTATTGGAGGCGACTTTCAGACGTTCCAGAAGCAGAACG 480

Db 8685 ATGAATTAAAGCCGGCAGCACCCTATTGGAGGCGACTTTCAGACGTTCCAGAAGCAGAACG 8744

QY 481 ATGTACATAGGGCCCTTCAAGAGGGAAATTGAAAACCTAAAGAACCTGTATCATGACTCTC 540

Db 8745 ATGTACATAGGGCCCTTCAAGAGGGAAATTGAAAACCTAAAGAACCTGTATCATGACTCTC 8804

QY 541 TTGAGACTGTACGAATATTTCTGACAGACAGCAGCCCTTTGGAAGGACTAGAAAACTTACC 600

Db 8805 TTGAGACTGTACGAATATTTCTGACAGACAGCAGCCCTTTGGAAGGACTAGAAAACTTACC 8864

QY 601 AGGAGCCCAAGAGAGCTGCTCTCTGAGAGAGAGAGCCCAAGATGTCACTCGGCTTCTACGA 660

Db 8865 AGGAGCCCAAGAGAGCTGCTCTCTGAGAGAGAGAGCCCAAGATGTCACTCGGCTTCTACGA 8924

QY 661 AGCAGGCTGAGAGAGTCAATACTGAGTGGGAAAAATTGAACCTGCACTCCGCTGACTGGC 720

Db 8925 AGCAGGCTGAGAGAGTCAATACTGAGTGGGAAAAATTGAACCTGCACTCCGCTGACTGGC 8984

QY 721 AGAGAAAAATAGATGAGACCCCTTGAAAAACTCCAGGAACCTCAAGAGGCCACGGATGAGC 780

Db 8985 AGAGAAAAATAGATGAGACCCCTTGAAAAACTCCAGGAACCTCAAGAGGCCACGGATGAGC 9044

QY 781 TGGACCTCAAGCTGCGCCAAAGCTGAGGTGATCAAGGGATCTTGCGAGCCCGTGGCGATC 840

Db 9045 TGGACCTCAAGCTGCGCCAAAGCTGAGGTGATCAAGGGATCTTGCGAGCCCGTGGCGATC 9104

QY 841 TCCCTATTGACTCTCTCCAAGATCACTCGAAGAAAGTCAAGGCACTTCGAGGAGAAAAATTG 900

Db 9105 TCCCTATTGACTCTCTCCAAGATCACTCGAAGAAAGTCAAGGCACTTCGAGGAGAAAAATTG 9164

QY 901 CGCCTCTGAAAGAGAACGTGAGCCACGTCAATGACCTTGTGCGCAGCTTACCACCTTTGG 960

Db 9165 CGCCTCTGAAAGAGAACGTGAGCCACGTCAATGACCTTGTGCGCAGCTTACCACCTTTGG 9224

QY 961 GCATTCACTCTCAACCGTATTAACCTCAAGCACTCTGGAAGACCTGAAACACCATGGAAGC 1020

Db 9225 GCATTCACTCTCAACCGTATTAACCTCAAGCACTCTGGAAGACCTGAAACACCATGGAAGC 9284

QY 1021 TTCTGAGGTGGCCGTGAGGACCGAGTCAAGGAGCTGCATGAAGCCACAGGACTTTG 1080

Db 9285 TTCTGAGGTGGCCGTGAGGACCGAGTCAAGGAGCTGCATGAAGCCACAGGACTTTG 9344

QY 1081 GTCCAGCATCTCAGCACTTCTTCCACGCTGTGTCCAGGGTCCCTGGGAGAGAGCCATCT 1140

Db 9345 GTCCAGCATCTCAGCACTTCTTCCACGCTGTGTCCAGGGTCCCTGGGAGAGAGCCATCT 9404

QY 1141 CGCCAACAAGTGCCCTACTATATCAACCAAGAGACTCAAAACAATTGCTGGAGCATC 1200

Db 9405 CGCCAACAAGTGCCCTACTATATCAACCAAGAGACTCAAAACAATTGCTGGAGCATC 9464

QY 1201 CCAAAATGACAGAGCTTACCAGTCTTTAGCTGACCTGAATATGTCAAGTTCTCAGCTT 1260

Db 9465 CCAAAATGACAGAGCTTACCAGTCTTTAGCTGACCTGAATATGTCAAGATTCTCAGCTT 9524

QY 1261 ATAGACTGCCATGAAACTCCGAAGACTGCAGAAAGGCCCTTTGCTTGATCTCTTGAGCC 1320

Db 9525 ATAGACTGCCATGAAACTCCGAAGACTGCAGAAAGGCCCTTTGCTTGATCTCTTGAGCC 9584

QY 1321 TGTCACTGCATGTGATGCTTGGACCAAGCACAACCTCAAGCAAAATGACAGCCCATGG 1380

Db 9585 TGTCACTGCATGTGATGCTTGGACCAAGCACAACCTCAAGCAAAATGACAGCCCATGG 9644

QY 1381 ATATCCTGCAGATTATTAATTGTTGACCACTATTATGACCGCCTGGAGCAAGAGCACA 1440

Db 9645 ATATCCTGCAGATTATTAATTGTTGACCACTATTATGACCGCCTGGAGCAAGAGCACA 9704

QY 1441 ACAATTTGTCACAGCTCCCTCTCTGCGTGATATGTGTGAACTGGCTGTAATGTTT 1500

Db 9705 ACAATTTGTCACAGCTCCCTCTCTGCGTGATATGTGTGAACTGGCTGTAATGTTT 9764

QY 1501 A 1501

Db 9765 A 9765

RESULT 12

US-09-880-107-2284
; Sequence 2284, Application US/09880107
; Patent No. US20020142981A1
; GENERAL INFORMATION:
; APPLICANT: Horne, Darci T.
; APPLICANT: Vockley, Joseph G.
; APPLICANT: Scherf, Uwe
; APPLICANT: Gene Logic, Inc.
; TITLE OF INVENTION: Gene Expression Profiles in Liver Cancer
; FILE REFERENCE: 44921-5028-WO
; CURRENT APPLICATION NUMBER: US/09/880,107
; PRIOR FILING DATE: 2001-06-14
; PRIOR APPLICATION NUMBER: US 60/211,379
; PRIOR FILING DATE: 2000-06-14
; PRIOR APPLICATION NUMBER: US 60/237,054
; NUMBER OF SEQ ID NOS: 3950
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 2284
; LENGTH: 13957
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: Genbank Accession No. US20020142981A1 M18533
US-09-880-107-2284

Query Match 99.9%; Score 1499.4; DB 9; Length 13957;
Best Local Similarity 99.9%; Pred No. 0;
Matches 1500; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 AGACTCATAGATTACTGCAACAGTTCCTGACCTGAAAGTTTCTTGCTGCTGCTTA 60

Db 8265 AAACCTCATAGATTACTGCAACAGTTCCTGACCTGAAAGTTTCTTGCTGCTGCTTA 8324

QY 61 CAGAAAGTGAACAAGTGCCTGCTTCAAGAGTGTACAGAGTGTACCGTTAAGGAGCTCTAG 120

Db 8325 CAGAAAGTGAACAAGTGCCTGCTTCAAGAGTGTACAGAGTGTACCGTTAAGGAGCTCTAG 8384

QY 121 AAGACTCCAAGGAGTAAAGAGCTGATGAACAATGGCAAGACCTCCAAGGTGAATTTG 180

Db 8385 AAGACTCCAAGGAGTAAAGAGCTGATGAACAATGGCAAGACCTCCAAGGTGAATTTG 8444

QY 181 AAGCTCACACAGATGTTTATCAACAACCTGGATGAAAAACAGCCAAAATCTGAAGATCCC 240

Db 8445 AAGCTCACACAGATGTTTATCAACAACCTGGATGAAAAACAGCCAAAATCTGAAGATCCC 8504

QY 241 TGGAAAGTTCGGATGATGACGTCTGTTACAAAGACGTTTGGATTAACATGAACCTTCAAGT 300

Db 8505 TGGAAAGTTCGGATGATGACGTCTGTTACAAAGACGTTTGGATTAACATGAACCTTCAAGT 8564

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QY 721 AGAGAAAAATAGATGAGACCCCTTGAAAGACTCCAGGAACCTTCAAGAGGCCACGGATGAGC 780
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DB 9165 CGCCTCTGAAAAGAAAGTGAAGCCAGTCAATGACCTTGTGCGCCAGCTTACCACTTTGG 9224
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DB 9345 GTCCAGCATCTCAGCACTTTCTTTCCACGCTGTGTCAGGGTCCCTGGAGAGAGCCATCT 9404
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DB 9405 CGCCAAACAAGTGCCCTACTATATCAACCAAGAGACTCAAAACAACCTTGCGGAGCCATC 9464
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QY 1321 TGTCAAGCTGATGTGATGCTTGGACCAGACCAACTCAAGCAAAATGACCAAGCCCATGG 1380
DB 9585 TGTCAAGCTGATGTGATGCTTGGACCAGACCAACTCAAGCAAAATGACCAAGCCCATGG 9644

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QY 1441 ACAATTTGGTCAAGCTCCCTCTCTGCGGTGATATGTGTCTGAACCTGGCTGTAATGTTT 1500
DB 9705 ACAATTTGGTCAAGCTCCCTCTCTGCGGTGATATGTGTCTGAACCTGGCTGTAATGTTT 9764
QY 1501 A 1501
DB 9765 A 9765

RESULT 13
US-10-149-736-1
; Sequence 1, Application US/10149736
; Publication No. US20030216332A1
; GENERAL INFORMATION:
; APPLICANT: Chamberlain, Jeffrey S.
; APPLICANT: Harper, Scott O.
; TITLE OF INVENTION: Mini-Dystrophin Nucleic Acids and Peptide Sequences
; FILE REFERENCE: UM-06968
; CURRENT APPLICATION NUMBER: US/10/149,736
; PRIOR APPLICATION NUMBER: PCT/US01/31126
; PRIOR FILING DATE: 2001-10-04
; PRIOR APPLICATION NUMBER: 60/238,848
; PRIOR FILING DATE: 2000-10-06
; NUMBER OF SEQ ID NOS: 96
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
; LENGTH: 13957
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-149-736-1

Query Match 99.9%; Score 1499.4; DB 17; Length 13957;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1500; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1 AGACTCATAGATTACTGCAACAGTTCCTCCCTGACCTGGAAGAAATTCTTGCTGCTGGCTTA 60
DB 8265 AAAGCTCATAGATTACTGCAACAGTTCCTCCCTGACCTGGAAGAAATTCTTGCTGCTGGCTTA 8324
QY 61 CAGAACTGAAACAACCTGCCAATGTCCTACAGAGATGCTACCCGTAAGGAAAGGCTCTAG 120
DB 8325 CAGAACTGAAACAACCTGCCAATGTCCTACAGAGATGCTACCCGTAAGGAAAGGCTCTAG 8384
QY 121 AAGACTCCAAGGAGTAAGAAAGCTGATGAACCAATGGCAAGACCTCCAAGGTGAATTTG 180
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QY 241 TGAAGGTTCCGATGATGAGTCTGTTACAAAGACGTTTGATTAACATGAACCTCAAGT 300
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DB 8565 GGAAGTGAAGTGGGAAAAAGTCTCTCAACATTAGGTCCCATTTGGAAGCCAGTTCTGACC 8624
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QY 481 ATGTACATAGGGCCTTCAAGAGGGAATTGAAAACTTAAAGAACTGTATCATGAGTACTC 540


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Qy      781 TGGACCTCAAGCTGCGCCCAAGCTGAGGTGATCAAGGGATCCTGGCAGCCCGTGGCGATC 840
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Qy      901 CGCCTCTGAAGAAGAGACGTGAGCCAGCTCAATGACCTTGCTCGCCAGCTTACCACTTTGG 960
Db      9165 CGCCTCTGAAGAAGAGACGTGAGCCAGCTCAATGACCTTGCTCGCCAGCTTACCACTTTGG 9224
Qy      961 GCATTCAGCTCTCAACCGTATTAACCTGACACTCTGGAAGACCTGAACACAGATGGAAGC 1020
Db      9225 GCATTCAGCTCTCAACCGTATTAACCTGACACTCTGGAAGACCTGAACACAGATGGAAGC 9284
Qy      1021 TTCTGCAAGGTGGCCGTCGAGGACCGAGTCAAGGCACTGCAAGGCCCAAGGGACTTTG 1080
Db      9285 TTCTGCAAGGTGGCCGTCGAGGACCGAGTCAAGGCACTGCAAGGCCCAAGGGACTTTG 9344
Qy      1081 GTCCAGCATCTCAGCACTTTCTTCCAAGTCTGTCCAGGGTCCCTGGGAGAGAGCCATCT 1140
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Qy      1141 CGCCAACAAGAGTGCCTACTATATCAACCAAGAGACTCAAAACAACCTTGCTGGAGCATC 1200
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Qy      1321 TGTCAAGCTGATGTGATGCTTGGACCAAGCAAACTCAAGCAAAAAGACAGCCCATGG 1380
Db      9585 TGTCAAGCTGATGTGATGCTTGGACCAAGCAAACTCAAGCAAAAAGACAGCCCATGG 9644
Qy      1381 ATATCTGACAGATTATTAATGTTTGAACCACTATTATGACCGCTGAGCAAGAGACACA 1440
Db      9645 ATATCTGACAGATTATTAATGTTTGAACCACTATTATGACCGCTGAGCAAGAGACACA 9704
Qy      1441 ACAATTTGGTCAACGTCCTCTGCGTGGATATGTGTGAACTGGCTGTAATGTTT 1500
Db      9705 ACAATTTGGTCAACGTCCTCTGCGTGGATATGTGTGAACTGGCTGTAATGTTT 9764
Qy      1501 A 1501
Db      9765 A 9765
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US-10-172-118-434
; Sequence 434, Application US/10172118
; Publication No. US20030224374A1
; GENERAL INFORMATION:
; APPLICANT: Dai, Hongyue
; APPLICANT: He, Yudong
; APPLICANT: Linsley, Peter
; APPLICANT: Mao, Mao
; APPLICANT: Roberts, Chris
; APPLICANT: Van 't Veer, Laura
; APPLICANT: Van de Vijver, Marc
; APPLICANT: Bernards, Rene
; TITLE OF INVENTION: Diagnosis and Prognosis of Breast Cancer Patients
; FILE REFERENCE: 9301-175-999
; CURRENT APPLICATION NUMBER: US/10/172,118
; PRIOR FILING DATE: 2002-06-14
; PRIOR APPLICATION NUMBER: 60/380,770
; NUMBER OF SEQ ID NOS: 2699
; SEQ ID NO 434
; LENGTH: 14069
; TYPE: DNA
; ORGANISM: Homo sapiens
; PUBLICATION INFORMATION:
; DATABASE ACCESSION NUMBER: NM_000109
; DATABASE ENTRY DATE: 2001-06-18
US-10-172-118-434
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Query Match      99.9%; Score 1499.4; DB 17; Length 14069;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1500; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
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Qy      1 AGACTCATAGATTACTGCAACAGTTCCCTCGACCTGGAAAAAGTTCTTGCTGCTTA 60
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Qy      61 CAGAAAGTGAACAACACTGCCAATGCTTACAGAGTGTACCCGTAAGGAAAGCTCCTAG 120
Db      8437 CAGAAAGTGAACAACACTGCCAATGCTTACAGAGTGTACCCGTAAGGAAAGCTCCTAG 8496
Qy      121 AAGACTCCAAGGAGTAAAGAGCTGATGAACAATGCAAGACCTCCAAAGTGAAATTG 180
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Qy      181 AAGCTCACACAGATGTTTATCACAACTGATGAAAAACAGCCAAAAATCCTGAGATCCC 240
Db      8557 AAGCTCACACAGATGTTTATCACAACTGATGAAAAACAGCCAAAAATCCTGAGATCCC 8616
Qy      241 TGGAAAGTTCGGATGATGACAGTCTGTTACAAAGACGTTTGGATTAACATGAATCTCAAGT 300
Db      8617 TGGAAAGTTCGGATGATGACAGTCTGTTACAAAGACGTTTGGATTAACATGAATCTCAAGT 8676
Qy      301 GGAGTGAAGTTCGAAAAAGTCTCTCAACATTAAGTCCCATTTGGAAGCCAGTTCTGACC 360
Db      8677 GGAGTGAAGTTCGAAAAAGTCTCTCAACATTAAGTCCCATTTGGAAGCCAGTTCTGACC 8736
Qy      361 AGTGAAGGCTCTGACACTTTCTGCAAGAACTTCTGATGCTTCAAGCTGAAAGATG 420
Db      8737 AGTGAAGGCTCTGACACTTTCTGCAAGAACTTCTGATGCTTCAAGCTGAAAGATG 8796
Qy      421 ATGAATTAAGCCGCGACGACCTATTGAGGGCAGCTTTCAGAGTTCAAGAGCAGAAGC 480
Db      8797 ATGAATTAAGCCGCGACGACCTATTGAGGGCAGCTTTCAGAGTTCAAGAGCAGAAGC 8856
Qy      481 ATGTACATAGGGCCTTCAAGAGGGAATTGAAAACTAAGAACTGTATCATGAGTACTC 540
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Qy      541 TTGAGACTGTACGAATATTTCTGACAGAGCAGCTTTGGAAGGACTAGAGAACTCTACC 600
Db      8917 TTGAGACTGTACGAATATTTCTGACAGAGCAGCTTTGGAAGGACTAGAGAACTCTACC 8976
Qy      601 AGAGCCCAAGAGAGCTGCGCTCTGAGAGAGAGGCCAAGATGCACTCGGCTTCTACGAA 660
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Db 8977 AGGAGCCAGAGAGCTGCCTCTGAGAGAGAGCCCAAGATGTCACTCGCTTCAAGAA 9036
QY 661 AGCAGGCTGAGAGGTCAATACTGAGTGGGAAAAATTGAACCTGCACCTCGCTGACTGGC 720
Db 9037 AGCAGGCTGAGAGGTCAATACTGAGTGGGAAAAATTGAACCTGCACCTCGCTGACTGGC 9096
QY 721 AGAGAAAAATAGATGAGAACCCCTTGAAAGACTCCAGGAACCTCAAGAGGCCAGGATGAGC 780
Db 9097 AGAGAAAAATAGATGAGAACCCCTTGAAAGACTCCAGGAACCTCAAGAGGCCAGGATGAGC 9156
QY 781 TGGACCTCAAGCTGGGCCCAAGCTGAGGTGATCAAGGGATCCTGGCAGCCGCTGGCGATC 840
Db 9157 TGGACCTCAAGCTGGGCCCAAGCTGAGGTGATCAAGGGATCCTGGCAGCCGCTGGCGATC 9216
QY 841 TCCTCATTTGACTCTCTCCAGAGTCACTCGAAGAAAGTCAAGGCACTTCGAGAGAGAAATTG 900
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QY 901 CGCCTCTGAAAGAGAAAGTGAAGCCAGTCAATGACCTTGTCTGCGCAGCTTACCACTTTGG 960
Db 9277 CGCCTCTGAAAGAGAAAGTGAAGCCAGTCAATGACCTTGTCTGCGCAGCTTACCACTTTGG 9336
QY 961 GCATTCAAGCTCTCAACGTATTAACCTCAGCACTCTGGAAGACCTGAACACCAAGATGGAAGC 1020
Db 9337 GCATTCAAGCTCTCAACGTATTAACCTCAGCACTCTGGAAGACCTGAACACCAAGATGGAAGC 9396
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QY 1081 GTCCAGCATCTCAGCACTTTCTTTCCAGCTGTCTCCAGGGTCCCTGGGAGAGAGCCATCT 1140
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Db 9577 CCAAAATGACAGAGCTTACCAAGCTTTAGCTGACCTGAATAATGTCAAGTTCTCAGCTT 9636
QY 1261 ATAGGACTGACATGAACCTCCGAGACTGCAAGAGGCCCTTGTGATCTCTTGAGCC 1320
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QY 1441 ACAATTGCTCAACGTCCTCTCTGCGTGATATGTGTCTGAACCTGGCTGTAATGTTT 1500
Db 9817 ACAATTGCTCAACGTCCTCTCTGCGTGATATGTGTCTGAACCTGGCTGTAATGTTT 9876
QY 1501 A 1501
Db 9877 A 9877

RESULT 15

US-10-342-887-434
; Sequence 434, Application US/10342887
; Publication No. US20040058340A1
; GENERAL INFORMATION:
; APPLICANT: Dai, Hongyue
; APPLICANT: He, Yudong
; APPLICANT: Linsley, Peter S.
; APPLICANT: Mao, Mao

; APPLICANT: Roberts, Christopher J.
; APPLICANT: Van 't Veer, Laura Johanna
; APPLICANT: Van de Vijver, Marc J.
; APPLICANT: Bernards, Rene
; TITLE OF INVENTION: Diagnosis and Prognosis of Breast Cancer Patients
; FILE REFERENCE: 9301-188-999
; CURRENT APPLICATION NUMBER: US/10/342, 887
; PRIOR FILING DATE: 2003-01-15
; PRIOR APPLICATION NUMBER: 60/298, 918
; PRIOR FILING DATE: 2001-06-18
; PRIOR APPLICATION NUMBER: 60/380, 710
; PRIOR FILING DATE: 2002-05-14
; PRIOR APPLICATION NUMBER: 10/172, 118
; PRIOR FILING DATE: 2002-06-14
; NUMBER OF SEQ ID NOS: 2699
; SEQ ID NO 434
; LENGTH: 14069
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-342-887-434

Query Match 99.9%; Score 1499.4; DB 17; Length 14069;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1500; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 AGACTCATAGATTACTGCAACAGTTCCTCCCTGGAACCTGGAAGAAAGTTCTTGCTGCTTA 60
Db 8377 AAACATAGATTACTGCAACAGTTCCTCCCTGGAACCTGGAAGAAAGTTCTTGCTGCTTA 8436
QY 61 CAGAAAGCTGAACAACCTGCCAATGTCTTACAGAGTCTACCCGTAAGAAAGGCTCCTAG 120
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QY 121 AAGACTCCAAGGAGTAAAGAGCTGATGAAACAATGGCAAGACCTCCAAGTGAATG 180
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QY 241 TGGAAAGTTCCGATGATGCAAGTCTCTTACAAAGACGTTTGATTAACATGAATTCAGT 300
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QY 361 AGTGAAGCGTCTGCACTTCTCTGCAAGAACTTCTGTGTGCTTACAGCTGAAGATG 420
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Job time : 905.381 secs

GenCore version 5.1.6
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OM nucleic - nucleic search, using bw model

Run on: March 2, 2005, 06:35:12 ; Search time 897.381 Seconds
(without alignments)
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Gapop 10.0 , Gapext 1.0

Searched: 5394803 seqs, 2962729879 residues

Total number of hits satisfying chosen parameters: 10789606

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications NA:*

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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2	1501	100.0	3531	10	US-09-845-416-10	Sequence 10, Appli
3	1501	100.0	3858	10	US-09-845-416-9	Sequence 9, Appli
4	1501	100.0	3999	10	US-09-845-416-6	Sequence 6, Appli
5	1501	100.0	4182	10	US-09-845-416-2	Sequence 2, Appli
6	1501	100.0	4498	10	US-09-845-416-30	Sequence 30, Appli
7	1501	100.0	4825	10	US-09-845-416-29	Sequence 29, Appli
8	1501	100.0	4848	10	US-09-845-416-35	Sequence 35, Appli
9	1501	100.0	4966	10	US-09-845-416-28	Sequence 28, Appli
10	1501	100.0	4990	10	US-09-845-416-34	Sequence 34, Appli
11	1501	100.0	5060	10	US-09-845-416-36	Sequence 36, Appli

12	1501	100.0	5149	10	US-09-845-416-27	Sequence 27, Appli
13	1501	100.0	5339	17	US-10-149-736-40	Sequence 40, Appli
14	1501	100.0	5462	17	US-10-149-736-41	Sequence 41, Appli
15	1501	100.0	5689	17	US-10-149-736-42	Sequence 42, Appli
16	1501	100.0	11058	10	US-09-845-416-1	Sequence 1, Appli
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22	1501	100.0	14069	17	US-10-172-118-434	Sequence 434, App
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25	1501	100.0	14082	17	US-10-172-118-981	Sequence 981, App
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27	1339.8	89.3	3510	10	US-09-845-416-12	Sequence 12, Appli
28	1339.8	89.3	4476	10	US-09-845-416-31	Sequence 31, Appli
29	1335	88.9	1821	10	US-09-845-416-13	Sequence 13, Appli
30	1301	86.7	13815	17	US-10-149-736-2	Sequence 2, Appli
31	949.6	63.3	3446	10	US-09-845-416-14	Sequence 14, Appli
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33	948.6	63.2	5417	17	US-10-149-736-39	Sequence 39, Appli
34	948	63.2	1434	10	US-09-845-416-15	Sequence 15, Appli
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43	324	21.6	324	17	US-10-149-736-33	Sequence 33, Appli
44	216	14.4	216	17	US-10-149-736-34	Sequence 34, Appli
45	170	11.3	348	17	US-10-149-736-31	Sequence 31, Appli

ALIGNMENTS

RESULT 1
US-09-845-416-4
; Sequence 4, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845,416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 4
; LENGTH: 2169
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-09-845-416-4

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; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845,416
; PRIOR FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 10
; LENGTH: 3531
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-10

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Best Local Similarity 100.0%; Pred. No. 0;
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; Sequence 9, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845,416
; PRIOR FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: Patent In Ver. 2.1
; SEQ ID NO 9
; LENGTH: 3858
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-9
Query Match 100.0%; Score 1501; DB 10; Length 3858;
Best local similarity 100.0%; Pred. No. 0;
Matches 1501; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Qy 61 AAGGTCGATGATGACAGTCCGTGTTCAAAAGACGTTTGATTAACATGAACCTCAAGTGA 120
Db 1919 AAGGTCGATGATGACAGTCCGTGTTCAAAAGACGTTTGATTAACATGAACCTCAAGTGA 1978
Qy 121 GTGAACCTCGAAAAAGTCTCTCAACATTAAGTCCCATTTGAAAGCCAGTTCTGACCAGT 180
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Qy 181 GGAAGCTGTGCACTTTCTCTGCAAGAACTTCTGTGTGGCTACAGCTGAAGATGATG 240
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Db 2339 AGGCTGAGAGAGTCAATTACTGAGTGGGAAAAATTGAACCTGCACTCCGCTTCTACGAAAGC 2398
Qy 541 GAAAAATAGATGAGACCCTTGAAAAGACTCCAGGAACTTCAAGAGGCCAGGATGAGCTGG 600
Db 2399 GAAAAATAGATGAGACCCTTGAAAAGACTCCAGGAACTTCAAGAGGCCAGGATGAGCTGG 2458
Qy 601 ACCTCAAGCTGCGCCAAAGCTGAGTGATCAAGGATCCTGGCAGCCCGTGGGCGATCTCC 660
Db 660 ACCTCAAGCTGCGCCAAAGCTGAGTGATCAAGGATCCTGGCAGCCCGTGGGCGATCTCC 660

Db 2459 AACTCAAGCTGCGCAAGCTGAGGTGATCAAGGGATCTGGCAGCCCGTGGCGATCTCC 2518
QY 661 TCATTGACTCTCTCCAAGATCACTCTCGAGAAAGTCAAGGCACCTTCGAGAGAAATTGCGC 720
Db 2519 TCATTGACTCTCTCCAAGATCACTCTCGAGAAAGTCAAGGCACCTTCGAGAGAAATTGCGC 2578
QY 721 CTCTGAAAAGAAAGCTGAGCCACGTCATGACCTTGTCTGCGCAGCTTAACTTGGGCA 780
Db 2579 CTCTGAAAAGAAAGCTGAGCCACGTCATGACCTTGTCTGCGCAGCTTAACTTGGGCA 2638
QY 781 TTCAGCTCTCAACCGTATAAACCCTCAGCACTCTGGAAGACCTGAAACACAGATGGAAGCTTC 840
Db 2639 TTCAGCTCTCAACCGTATAAACCCTCAGCACTCTGGAAGACCTGAAACACAGATGGAAGCTTC 2698
QY 841 TGCAGGTGGCCGTGAGGAGCAGGAGTCAAGGAGCTGCATGAAAGCCCAAGGAGCTTTGGTC 900
Db 2699 TGCAGGTGGCCGTGAGGAGCAGGAGTCAAGGAGCTGCATGAAAGCCCAAGGAGCTTTGGTC 2758
QY 901 CAGCATCTCAGCACTTTCTTCCACGCTGTCTCCAGGGTCCCTGGGAGAGAGCCATCTCGC 960
Db 2759 CAGCATCTCAGCACTTTCTTCCACGCTGTCTCCAGGGTCCCTGGGAGAGAGCCATCTCGC 2818
QY 961 CAAACAAAGTGGCCCTACTATATCAACCAAGAGACTCAAAACAATTGCTGGAGCAATCCCA 1020
Db 2819 CAAACAAAGTGGCCCTACTATATCAACCAAGAGACTCAAAACAATTGCTGGAGCAATCCCA 2878
QY 1021 AAATGACAGAGCTCTACCAAGCTTTAGCTGACCTGAATATGTCAAGTTCTCAGCTTATA 1080
Db 2879 AAATGACAGAGCTCTACCAAGCTTTAGCTGACCTGAATATGTCAAGTTCTCAGCTTATA 2938
QY 1081 GGACTGGCATGAAACTCCGAAGACTGCAGAAAGGCCCTTGTCTTGATCTTTGAGCCTGT 1140
Db 2939 GGACTGGCATGAAACTCCGAAGACTGCAGAAAGGCCCTTGTCTTGATCTTTGAGCCTGT 2998
QY 1141 CAGCTGCATGTGATGCTTGGACCAAGACCAACCTCAAGCAAAATGACCAAGCCCATGATA 1200
Db 2999 CAGCTGCATGTGATGCTTGGACCAAGACCAACCTCAAGCAAAATGACCAAGCCCATGATA 3058
QY 1201 TCCTGCAGATTATTAATGTGTTGACCACTATTATGACCGCCCTGGAGCAAGACACAACA 1260
Db 3059 TCCTGCAGATTATTAATGTGTTGACCACTATTATGACCGCCCTGGAGCAAGACACAACA 3118
QY 1261 ATTTGGTCAACGTCCTCTCTGCGTGATATGTCTGAACTGGCTGCTGAATGTTATG 1320
Db 3119 ATTTGGTCAACGTCCTCTCTGCGTGATATGTCTGAACTGGCTGCTGAATGTTATG 3178
QY 1321 ATACGGAGCAAGAGGAGATCCGTGTCTCTTTTAAACTGGCATCATTTCCCTGT 1380
Db 3179 ATACGGAGCAAGAGGAGATCCGTGTCTCTTTTAAACTGGCATCATTTCCCTGT 3238
QY 1381 GTAAAGCACATTTGGAAGACAGATACAGATACCTTTCAAGCAAGTGCAAGTTCAACAG 1440
Db 3239 GTAAAGCACATTTGGAAGACAGATACAGATACCTTTCAAGCAAGTGCAAGTTCAACAG 3298
QY 1441 GATTTGTGACGAGCGCAGGCTGGGCTCTTCTGATGATTTCTATCCAAATTCAGAGC 1500
Db 3299 GATTTGTGACGAGCGCAGGCTGGGCTCTTCTGATGATTTCTATCCAAATTCAGAGC 3358
QY 1501 A 1501
Db 3359 A 3359

RESULT 4
US-09-845-416-6
; Sequence 6, Application us/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; FILE REFERENCE: DE1142

; CURRENT APPLICATION NUMBER: US/09/845,416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 6
; LENGTH: 3999
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-6
Query Match 100.0%; Score 1501; DB 10; Length 3999;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1501; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 CTCACACAGATGTTTATCAACAACCTGGATGAAACAGCCAAAATCCTGAGATCCCTGG 60
Db 2000 CTCACACAGATGTTTATCAACAACCTGGATGAAACAGCCAAAATCCTGAGATCCCTGG 2059
QY 61 AAGTTCGATGATGACAGTCTGTTCACAAAGACGTTTGATTAACATGAATCAAGTGA 120
Db 2060 AAGTTCGATGATGACAGTCTGTTCACAAAGACGTTTGATTAACATGAATCAAGTGA 2119
QY 121 GTGAACCTTGGAAAAAGTCTCTCAACATTAGTCCATTGGAAAGCCAGTTCTGACCAGT 180
Db 2120 GTGAACCTTGGAAAAAGTCTCTCAACATTAGTCCATTGGAAAGCCAGTTCTGACCAGT 2179
QY 181 GGAAGCGTCTGCACCTTTCTCTGACGAACTTGTGTGTGCTACAGCTGAAAGATGATG 240
Db 2180 GGAAGCGTCTGCACCTTTCTCTGACGAACTTGTGTGTGCTACAGCTGAAAGATGATG 2239
QY 241 AATTAAGCCGGCAGGACCTATTGAGGCGACTTTCAGCAGTTCAAGACAGACGATG 300
Db 2240 AATTAAGCCGGCAGGACCTATTGAGGCGACTTTCAGCAGTTCAAGACAGACGATG 2299
QY 301 TACATAGGGCTTCAAGAGGGAATTGAAAACTAAAGAACCTGTATCATGATGACTCTTG 360
Db 2300 TACATAGGGCTTCAAGAGGGAATTGAAAACTAAAGAACCTGTATCATGATGACTCTTG 2359
QY 361 AGACTGTACGAATATTTCTGACAGAGACGCTTTGGAAGACTAGAGAACTCTACCAAG 420
Db 2360 AGACTGTACGAATATTTCTGACAGAGACGCTTTGGAAGACTAGAGAACTCTACCAAG 2419
QY 421 AGCCAGAGAGCTGCTCTCTGAGGAGAGAGCCAGATGTCACTCGGCTTCTACGAAAGC 480
Db 2420 AGCCAGAGAGCTGCTCTCTGAGGAGAGAGCCAGATGTCACTCGGCTTCTACGAAAGC 2479
QY 481 AGGCTGAGAGGTCAATACTGATGTTGGAAAAATTGAACCTGCACTCCGCTGATGGCAGA 540
Db 2480 AGGCTGAGAGGTCAATACTGATGTTGGAAAAATTGAACCTGCACTCCGCTGATGGCAGA 2539
QY 541 GAAAAATAGATGAGACCCCTTGAAGACTCCAGGAACCTTCAAGAGGCCACGATGAGCTGG 600
Db 2540 GAAAAATAGATGAGACCCCTTGAAGACTCCAGGAACCTTCAAGAGGCCACGATGAGCTGG 2599
QY 601 ACCTCAAGCTGGCCCAAGCTGAGGTGATCAAGGGATCTGGCAGCCCGTGGCGATCTCC 660
Db 2600 ACCTCAAGCTGGCCCAAGCTGAGGTGATCAAGGGATCTGGCAGCCCGTGGCGATCTCC 2659
QY 661 TCATTGACTCTCTCCAAGATCACTCGAGAAAGTCAAGGCACTTCGAGAGAAATTGGCGC 720
Db 2660 TCATTGACTCTCTCCAAGATCACTCGAGAAAGTCAAGGCACTTCGAGAGAAATTGGCGC 2719
QY 721 CTCTGAAAAGAAAGCTGAGCCACGTCATGACCTTGTCTGCGCAGCTTAACTTGGGCA 780
Db 2720 CTCTGAAAAGAAAGCTGAGCCACGTCATGACCTTGTCTGCGCAGCTTAACTTGGGCA 2779
QY 781 TTCAGCTCTCACCCTATTAACCTCAGCACTCTGGAAGACCTGAAGACCATGGAAGCTTC 840
Db 2780 TTCAGCTCTCACCCTATTAACCTCAGCACTCTGGAAGACCTGAAGACCATGGAAGCTTC 2839
QY 841 TGCAGGTGGCCGTGAGGAGCAGGAGTCAAGCAGCTGCATGAAAGCCCAAGGAGCTTTGGTC 900

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Db 2840 TGCAGTGGCCGTCGAGGACCGAGCTGCATGAAGCCACAGGACTTTGTC 2899
QY 901 CAGCATCTCAGCACTTTCTTCCACGTCCTCCAGGGTCCCTGGAGAGACCATCTCGC 960
Db 2900 CAGCATCTCAGCACTTTCTTCCACGTCCTCCAGGGTCCCTGGAGAGACCATCTCGC 2959
QY 961 CAAACAAAGTGCCCTACTATATCAACCAAGAGACTCAAAACAATTGCTGGGACCATCCCA 1020
Db 2960 CAAACAAAGTGCCCTACTATATCAACCAAGAGACTCAAAACAATTGCTGGGACCATCCCA 3019
QY 1021 AAATGACAGAGCTCTACAGTCTTGAAGTGAAGTGAATATGTCAGATTCTCAGCTTATA 1080
Db 3020 AAATGACAGAGCTCTACAGTCTTGAAGTGAAGTGAATATGTCAGATTCTCAGCTTATA 3079
QY 1081 GGAAGTCCATGAAGTCCGGAAGTGAAGGCCCCCTTGCTGATCTCTTGAGCCTGT 1140
Db 3080 GGAAGTCCATGAAGTCCGGAAGTGAAGGCCCCCTTGCTGATCTCTTGAGCCTGT 3139
QY 1141 CAGCTGCATGTGATGCTTGAGCAGCACAACCTCAAGCAAAATGACAGCCCATGATA 1200
Db 3140 CAGCTGCATGTGATGCTTGAGCAGCACAACCTCAAGCAAAATGACAGCCCATGATA 3199
QY 1201 TCCTGCAGATTATTAATTGTTGACCACTATTATGACCCGCTGAGACAGACACAACA 1260
Db 3200 TCCTGCAGATTATTAATTGTTGACCACTATTATGACCCGCTGAGACAGACACAACA 3259
QY 1261 ATTGGTCAAGTCCCTCTCTGCGTGAATGTGTCTGAACCTGCTGTAATGTTATG 1320
Db 3260 ATTGGTCAAGTCCCTCTCTGCGTGAATGTGTCTGAACCTGCTGTAATGTTATG 3319
QY 1321 ATACGGGACGAACAGGAGGATCCGTCCTCTTTTAAACTGGCAATTCCTCCCTGT 1380
Db 3320 ATACGGGACGAACAGGAGGATCCGTCCTCTTTTAAACTGGCAATTCCTCCCTGT 3379
QY 1381 GTAAAGCATTGGAAGACAGATACATCTTTCAAGCAAGTGGCAAGTTCAACAG 1440
Db 3380 GTAAAGCATTGGAAGACAGATACATCTTTCAAGCAAGTGGCAAGTTCAACAG 3439
QY 1441 GATTTGTGACGACGCGCAGGCTGGGCTCTTCTGCATGATTCTATCCAAATTCCAAGAC 1500
Db 3440 GATTTGTGACGACGCGCAGGCTGGGCTCTTCTGCATGATTCTATCCAAATTCCAAGAC 3499
QY 1501 A 1501
Db 3500 A 3500
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RESULT 5
US-09-845-416-2
; Sequence 2, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845,416
; PRIOR FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: Patent In Ver. 2.1
; SEQ ID NO 2
; LENGTH: 4182
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-2
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Query Match 100.0%; Score 1501; DB 10; Length 4182;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1501; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY 1 CTCACACAGATGTTTATCACAACCTGGATGAAAAACGCCAAAAAATCCTGAGATCCCTGG 60
Db 2183 CTCACACAGATGTTTATCACAACCTGGATGAAAAACGCCAAAAAATCCTGAGATCCCTGG 2242
QY 61 AAGTTCGATGATGACAGTCCGTGTTACAAAGACGTTTGATTAACATGAACCTTCAAGTGA 120
Db 2243 AAGTTCGATGATGACAGTCCGTGTTACAAAGACGTTTGATTAACATGAACCTTCAAGTGA 2302
QY 121 GTGAAGTTCGAAAAAGTCTCTCAACATTAAGTCCCATTTGGAAGCCAGTTCTGACCAGT 180
Db 2303 GTGAAGTTCGAAAAAGTCTCTCAACATTAAGTCCCATTTGGAAGCCAGTTCTGACCAGT 2362
QY 181 GGAAGCTGTGACCTTTCTCTGAGGAACCTTGTTGTGGCTACAGCTGAAAGATGATG 240
Db 2363 GGAAGCTGTGACCTTTCTCTGAGGAACCTTGTTGTGGCTACAGCTGAAAGATGATG 2422
QY 241 AATTAAAGCCGACAGGACCTATTGGAGCCGACTTTCCAGCAGTTCAAGACAGACGATG 300
Db 2423 AATTAAAGCCGACAGGACCTATTGGAGCCGACTTTCCAGCAGTTCAAGACAGACGATG 2482
QY 301 TACATAGGGCTTCAAGAGGGAATTGAAAACTAAAGAACCTGTAAATCATGACTCTTG 360
Db 2483 TACATAGGGCTTCAAGAGGGAATTGAAAACTAAAGAACCTGTAAATCATGACTCTTG 2542
QY 361 AGACTGTACGAATATTTCTGACAGCAGCCTTTGGAAGACTGAGAAAACTCTACCAGG 420
Db 2543 AGACTGTACGAATATTTCTGACAGCAGCCTTTGGAAGACTGAGAAAACTCTACCAGG 2602
QY 421 AGCCCAAGAGCTGCTCTCTGAGGAGAGAGCCCAAGATGTCACTCGGCTTCTACGAAAGC 480
Db 2603 AGCCCAAGAGCTGCTCTCTGAGGAGAGAGCCCAAGATGTCACTCGGCTTCTACGAAAGC 2662
QY 481 AGGCTGAGAGGTCAATACAGTGGGAAAAATTGAACCTGCATCCGCTGACTGGCAGA 540
Db 2663 AGGCTGAGAGGTCAATACAGTGGGAAAAATTGAACCTGCATCCGCTGACTGGCAGA 2722
QY 541 GAAAAATAGATGAGACCCCTTGAAAGACTCCAGGAACCTTCAAGAGGCCACGATGAGCTGG 600
Db 2723 GAAAAATAGATGAGACCCCTTGAAAGACTCCAGGAACCTTCAAGAGGCCACGATGAGCTGG 2782
QY 601 ACCTCAAGCTGCGCCAGCTGAGGTGATCAAGGGATCCCTGGCAGCCGCTGAGCTTCC 660
Db 2783 ACCTCAAGCTGCGCCAGCTGAGGTGATCAAGGGATCCCTGGCAGCCGCTGAGCTTCC 2842
QY 661 TCATTGACTCTCTCCAAGATCACTCGAGAAAGTCAAGGCACTTCGAGAGAGAAATTGGCGC 720
Db 2843 TCATTGACTCTCTCCAAGATCACTCGAGAAAGTCAAGGCACTTCGAGAGAGAAATTGGCGC 2902
QY 721 CTCTGAAGAGAACGTGAGCCACGTCAATGACCTTGCTGCGCAGCTTACCACTTTGGGCA 780
Db 2903 CTCTGAAGAGAACGTGAGCCACGTCAATGACCTTGCTGCGCAGCTTACCACTTTGGGCA 2962
QY 781 TTCAGCTCTCACCGTATTAACCTCAGACTCTGGAAGACCTGAAACCAAGATGGAAGCTTC 840
Db 2963 TTCAGCTCTCACCGTATTAACCTCAGACTCTGGAAGACCTGAAACCAAGATGGAAGCTTC 3022
QY 841 TGCAAGTGGCCGTGAGAGACCGAGTCAAGGCACTGCATGAAGCCACAGGGAATTGGTGC 900
Db 3023 TGCAAGTGGCCGTGAGAGACCGAGTCAAGGCACTGCATGAAGCCACAGGGAATTGGTGC 3082
QY 901 CAGCATCTCAGCACTTTCTTCCAGCTGTGTCAGAGGTCCTGGGAGAGAGCCATCTCGC 960
Db 3083 CAGCATCTCAGCACTTTCTTCCAGCTGTGTCAGAGGTCCTGGGAGAGAGCCATCTCGC 3142
QY 961 CAAACAAAGTGCCCTACTATATCAACCAAGAGACTCAAAACAATTGCTGGGACCATCCCA 1020
Db 3143 CAAACAAAGTGCCCTACTATATCAACCAAGAGACTCAAAACAATTGCTGGGACCATCCCA 3202
QY 1021 AAATGACAGAGCTCTACAGTCTTTAGCTGAACCTGAATATGTCAGATTCTCAGCTTATA 1080
Db 3203 AAATGACAGAGCTCTACAGTCTTTAGCTGAACCTGAATATGTCAGATTCTCAGCTTATA 3262
QY 1081 GGAAGTCCATGAAGTCCGGAAGTGAAGGCCCCCTTGCTGATCTCTTGAGCCTGT 1140
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Db 3263 GGAAGTCCATGAAACTCCGAGAGCTGCAGAGAGCCCTTGTCTTGATCTCTGAGCCTGT 3322
QY 1141 CAGCTGCATGTGATGCTTGGACCGACACAACTTCAAGCAAAATGACCGCCATGATA 1200
Db 3323 CAGCTGCATGTGATGCTTGGACCGACACAACTTCAAGCAAAATGACCGCCATGATA 3382
QY 1201 TCCTGCAGATTATTAATTGTTGACCACTATTATGACCGCCTGGAGCAAGACACACA 1260
Db 3383 TCCTGCAGATTATTAATTGTTGACCACTATTATGACCGCCTGGAGCAAGACACACA 3442
QY 1261 ATTTGTCACGTCCTCTCTGCGTGATATGTGTGAACTGAGCTGCTGAATGTTATG 1320
Db 3443 ATTTGTCACGTCCTCTCTGCGTGATATGTGTGAACTGAGCTGCTGAATGTTATG 3502
QY 1321 ATACGGACGAACAGGAGGATCCGTGTCTGTCTTTTAAACTGGCATCATTTCCCTGT 1380
Db 3503 ATACGGACGAACAGGAGGATCCGTGTCTGTCTTTTAAACTGGCATCATTTCCCTGT 3562
QY 1381 GTAAAGCATTGTGGAAGACAGTACAGATACCTTTTCAAGCAAGTGCAAGTCAACAG 1440
Db 3563 GTAAAGCATTGTGGAAGACAGTACAGATACCTTTTCAAGCAAGTGCAAGTCAACAG 3622
QY 1441 GATTTGTGACCGCAGCGAGGCTGGCCTCTCTGTGATGATTTCTATCCAAATTTCAAGAC 1500
Db 3623 GATTTGTGACCGCAGCGAGGCTGGCCTCTCTGTGATGATTTCTATCCAAATTTCAAGAC 3682
QY 1501 A 1501
Db 3683 A 3683

RESULT 6
US-09-845-416-30
; Sequence 30, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845,416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 30
; LENGTH: 4498
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-30

Query Match 100.0%; Score 1501; DB 10; Length 4498;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1501; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CTCACACAGATGTTTATCACAACCTGATGAAAAACAGCCAAAAAATCCTGAGATCCCTGG 60
Db 2289 CTCACACAGATGTTTATCACAACCTGATGAAAAACAGCCAAAAAATCCTGAGATCCCTGG 2348
QY 61 AAGGTTCCGATGATGAGTCCCTGTTACAAGAAGCTTTGGATTAACATGAACCTTCAAGTGA 120
Db 2349 AAGGTTCCGATGATGAGTCCCTGTTACAAGAAGCTTTGGATTAACATGAACCTTCAAGTGA 2408
QY 121 GTGAACCTTGGAAAAAGTCTCTCAACATTAGGTCCCATTTGGAAAGCCAGTTTGACCAAGT 180
Db 2409 GTGAACCTTGGAAAAAGTCTCTCAACATTAGGTCCCATTTGGAAAGCCAGTTTGACCAAGT 2468
QY 181 GGAAGCGTCTGCACCTTTCTCTGCAAGAACTTGTGTGGCTACAGCTGAAGATGATG 240
Db 2469 GGAAGCGTCTGCACCTTTCTCTGCAAGAACTTGTGTGGCTACAGCTGAAGATGATG 2528

QY 241 AATTAAAGCCGGCAGGCACTTATTGGAGCGCACTTCCAGCAGTTCAGAAGCAGAACGATG 300
Db 2529 AATTAAAGCCGGCAGGCACTTATTGGAGCGCACTTCCAGCAGTTCAGAAGCAGAACGATG 2588
QY 301 TACATAGGGCCTTCAAGAGGGAATTGAAAATAAAGAACTGTATCATGAGTACTCTTG 360
Db 2589 TACATAGGGCCTTCAAGAGGGAATTGAAAATAAAGAACTGTATCATGAGTACTCTTG 2648
QY 361 AGACTGTACGAATATTTCTGACAGAGCAGCCTTTGGAAGACTAGAGAACTTACCAGG 420
Db 2649 AGACTGTACGAATATTTCTGACAGAGCAGCCTTTGGAAGACTAGAGAACTTACCAGG 2708
QY 421 AGCCCAAGAGCTGCTCCTGAGGAGAGAGCCCAAGATGTCACTCGGCTTCTACGAAAGC 480
Db 2709 AGCCCAAGAGCTGCTCCTGAGGAGAGAGCCCAAGATGTCACTCGGCTTCTACGAAAGC 2768
QY 481 AGGCTGAGAGGTCATATCTGAGTGGGAAAAATTGAACCTGCACCTCGCTGACTGGCAGA 540
Db 2769 AGGCTGAGAGGTCATATCTGAGTGGGAAAAATTGAACCTGCACCTCGCTGACTGGCAGA 2828
QY 541 GAAAAATAGATGAGACCCCTTGAABAAGCTCCAGAACTTCAAGAGCCACGAGTAGCTGG 600
Db 2829 GAAAAATAGATGAGACCCCTTGAABAAGCTCCAGAACTTCAAGAGCCACGAGTAGCTGG 2888
QY 601 ACCTCAAGCTGCGCCAGCTGAGGTGATCAAGGATCTGTGGCAGCCCGTGGCGATCTCC 660
Db 2889 ACCTCAAGCTGCGCCAGCTGAGGTGATCAAGGATCTGTGGCAGCCCGTGGCGATCTCC 2948
QY 661 TCATTGACTCTCTCCAAGATCACTCGAAGAAATCAAGGCACCTTCGAGGAGAAATTGGCG 720
Db 2949 TCATTGACTCTCTCCAAGATCACTCGAAGAAATCAAGGCACCTTCGAGGAGAAATTGGCG 3008
QY 721 CTCTGAAAGAGAACGTGAGCCACGTCAATGACCTTGCTGCGCAGCTTACCACTTTGGGCA 780
Db 3009 CTCTGAAAGAGAACGTGAGCCACGTCAATGACCTTGCTGCGCAGCTTACCACTTTGGGCA 3068
QY 781 TTCAGCTCTCACCGTATTAACCTCAGCACTGTGAAGAAGCTGAACACAGATGGAAGCTTC 840
Db 3069 TTCAGCTCTCACCGTATTAACCTCAGCACTGTGAAGAAGCTGAACACAGATGGAAGCTTC 3128
QY 841 TGCAGGTGCGCGTGAAGACCGAGTCAGGACGTCGATGAAGCCACAGGAACTTTGGTC 900
Db 3129 TGCAGGTGCGCGTGAAGACCGAGTCAGGACGTCGATGAAGCCACAGGAACTTTGGTC 3188
QY 901 CAGCATCTCAGCACTTTCTTTCCAGCTGTCTCCAGGGTCCCTGGGAGAGAGCCATCTCGC 960
Db 3189 CAGCATCTCAGCACTTTCTTTCCAGCTGTCTCCAGGGTCCCTGGGAGAGAGCCATCTCGC 3248
QY 961 CAACAAAGTGCCCTACTATATCAACCAAGAGCTCAAAACAACCTTGCTGGAGCCATCCCA 1020
Db 3249 CAACAAAGTGCCCTACTATATCAACCAAGAGCTCAAAACAACCTTGCTGGAGCCATCCCA 3308
QY 1021 AAATGACAGAGCTCTACCAAGTCTTTAGCTGACCTGAATATGTCAAGTTCTCAGCTTATA 1080
Db 3309 AAATGACAGAGCTCTACCAAGTCTTTAGCTGACCTGAATATGTCAAGTTCTCAGCTTATA 3368
QY 1081 GGACTGCCATGAAAATCCGAAGACTGCAAGAGGCCCTTTGGTTGGATCTCTTGAGCCTGT 1140
Db 3369 GGACTGCCATGAAAATCCGAAGACTGCAAGAGGCCCTTTGGTTGGATCTCTTGAGCCTGT 3428
QY 1141 CAGCTGCATGTATGCTTGGACCAAGCACAACCTCAAGCAAAATGACAGGCCCATGAGATA 1200
Db 3429 CAGCTGCATGTATGCTTGGACCAAGCACAACCTCAAGCAAAATGACAGGCCCATGAGATA 3488
QY 1201 TCCTGCAGATTATTAATTGTTGACCACTATTATGACCGCCTGGAGCAAGACACAACA 1260
Db 3489 TCCTGCAGATTATTAATTGTTGACCACTATTATGACCGCCTGGAGCAAGACACAACA 3548
QY 1261 ATTTGTCACGTCCTCTCTGCGTGATATGTGTGAACTGCTGCTGAATGTTTATG 1320
Db 3549 ATTTGTCACGTCCTCTCTGCGTGATATGTGTGAACTGCTGCTGAATGTTTATG 3608
QY 1321 ATACGGGAGCAAGCAGGAGGATCCGTGTCTGTCTTTTAAACTGGCATATTTCCCTGT 1380

Db 3609 ATACGGAGCAACAGGAGGATCCGTCCTGCTTTTAAACCTGCATCATTTCCCTGT 3668
Qy 1381 GTAAAGACATTTGGAGACAGTACAGTACCTTTTCAAGCAAGTGGCAAGTTCAACAG 1440
Db 3669 GTAAAGACATTTGGAGACAGTACAGTACCTTTTCAAGCAAGTGGCAAGTTCAACAG 3728
Qy 1441 GATTTGTGACCAAGCGCAGGCTGGCTCTCTGTCATGATTTCAATCCAAATTCCAAGAC 1500
Db 3729 GATTTGTGACCAAGCGCAGGCTGGCTCTCTGTCATGATTTCAATCCAAATTCCAAGAC 3788
Qy 1501 A 1501
Db 3789 A 3789

RESULT 7
US-09-845-416-29
; Sequence 29, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845,416
; PRIOR FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 29
; LENGTH: 4825
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-29

Query Match 100.0%; Score 1501; DB 10; Length 4825;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1501; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 CTCACACAGATGTTTATCACAACCTGATGAAAAAGCCAAAAATCCTGAGATCCCTGG 60
Db 2616 CTCACACAGATGTTTATCACAACCTGATGAAAAAGCCAAAAATCCTGAGATCCCTGG 2675
Qy 61 AAGGTCGATGATGAGTCTCTCAACAATTAGTCCCATTTGGAAGCCAGTTCTGACCAGT 120
Db 2676 AAGGTCGATGATGAGTCTCTCAACAATTAGTCCCATTTGGAAGCCAGTTCTGACCAGT 2735
Qy 121 GTGAACCTTCGGAAGAAAGTCTCTCAACAATTAGTCCCATTTGGAAGCCAGTTCTGACCAGT 180
Db 2736 GTGAACCTTCGGAAGAAAGTCTCTCAACAATTAGTCCCATTTGGAAGCCAGTTCTGACCAGT 2795
Qy 181 GGAAGCGTCTGCACTTTCTCTGCAAGAACTTCTGCTGCTACAGCTGAAAGATGATG 240
Db 2796 GGAAGCGTCTGCACTTTCTCTGCAAGAACTTCTGCTGCTACAGCTGAAAGATGATG 2855
Qy 241 AATTAAAGCCGCGCAGGCACTTATTTGAGGCGAATTCCAGCAGTTCAAGACGAACGATG 300
Db 2856 AATTAAAGCCGCGCAGGCACTTATTTGAGGCGAATTCCAGCAGTTCAAGACGAACGATG 2915
Qy 301 TACATAGGCGCTTCAAGAGGAAATTGAAAACTAAAGAACCTGTAAATCATGACTCTTG 360
Db 2916 TACATAGGCGCTTCAAGAGGAAATTGAAAACTAAAGAACCTGTAAATCATGACTCTTG 2975
Qy 361 AGACTGTACGAATATTTCTGACAGAGCAGCTTTGGAAGACTAGAAACTCTACAGAG 420
Db 2976 AGACTGTACGAATATTTCTGACAGAGCAGCTTTGGAAGACTAGAAACTCTACAGAG 3035
Qy 421 AGCCCAAGAGAGCTGCTCTCTGAGAGAGAGCCCAAGATGTCACTCGGCTTCTACGAAAGC 480
Db 3036 AGCCCAAGAGAGCTGCTCTCTGAGAGAGAGCCCAAGATGTCACTCGGCTTCTACGAAAGC 3095

Qy 481 AGGCTGAGAGGTCATATCTGAGTGGAAAAATTGAAACCTGCATCTCCGCTGACTGGCAGA 540
Db 3096 AGGCTGAGAGGTCATATCTGAGTGGAAAAATTGAAACCTGCATCTCCGCTGACTGGCAGA 3155
Qy 541 GAAAAATAGATGAGACCCCTTGAAGACTCCAGAACTTCAAGAGCCACGATGAGCTGG 600
Db 3156 GAAAAATAGATGAGACCCCTTGAAGACTCCAGAACTTCAAGAGCCACGATGAGCTGG 3215
Qy 601 ACCTCAAGCTGCGCCAGAGCTGAGTGATCAAGGATCCTGGCAGCCCGTGGCGATCTCC 660
Db 3216 ACCTCAAGCTGCGCCAGAGCTGAGTGATCAAGGATCCTGGCAGCCCGTGGCGATCTCC 3275
Qy 661 TCATTGACTCTCTCCAAAGATCACTTCGAGAAAGTCAAGGCACTTCGAGGAGAAATTGCCG 720
Db 3276 TCATTGACTCTCTCCAAAGATCACTTCGAGAAAGTCAAGGCACTTCGAGGAGAAATTGCCG 3335
Qy 721 CTCTGAAAGAGAACTGAGCCACGTCATGACCTTGCTCGCCAGCTTACCACTTTGGGCA 780
Db 3336 CTCTGAAAGAGAACTGAGCCACGTCATGACCTTGCTCGCCAGCTTACCACTTTGGGCA 3395
Qy 781 TTCAAGCTCTCAACCGTATTAACCTCAGCACTCTGGAAGACCTGAACAAGATGAAGCTTC 840
Db 3396 TTCAAGCTCTCAACCGTATTAACCTCAGCACTCTGGAAGACCTGAACAAGATGAAGCTTC 3455
Qy 841 TGCAAGTGGCCGTCGAGAGCCGATCAGGAGCTGCATGAAGCCCAAGGACTTTGCTC 900
Db 3456 TGCAAGTGGCCGTCGAGAGCCGATCAGGAGCTGCATGAAGCCCAAGGACTTTGCTC 3515
Qy 901 CAGCATCTCAGCACTTTCTTTCCACGTCGTCTCCAGGCTCCCTGGAGAGAGAGCCATCTCCG 960
Db 3516 CAGCATCTCAGCACTTTCTTTCCACGTCGTCTCCAGGCTCCCTGGAGAGAGAGCCATCTCCG 3575
Qy 961 CAAACAAAGTGCCCTACTATATCAACCAAGAGACTCAAAACAATTGCTGGAGCCATCCCA 1020
Db 3576 CAAACAAAGTGCCCTACTATATCAACCAAGAGACTCAAAACAATTGCTGGAGCCATCCCA 3635
Qy 1021 AATGACAGAGCTCTACAGCTTTAGCTGACCTGAATATGTCAGATTCTCAGCTTATA 1080
Db 3636 AATGACAGAGCTCTACAGCTTTAGCTGACCTGAATATGTCAGATTCTCAGCTTATA 3695
Qy 1081 GAGCTGCATGAAACTCCGAAGCTCAGAAGGCCCTTGTCTTGATCTCTGAGCCTGT 1140
Db 3696 GAGCTGCATGAAACTCCGAAGCTCAGAAGGCCCTTGTCTTGATCTCTGAGCCTGT 3755
Qy 1141 CAGCTGCATGTGATGCTTGGACCAACAACCTCAAGCAAAATGACCAGCCCATGATA 1200
Db 3756 CAGCTGCATGTGATGCTTGGACCAACAACCTCAAGCAAAATGACCAGCCCATGATA 3815
Qy 1201 TCCTGCAGATTATTAATTGTTGACCACTATTATGACCGCTGGAGCAAGACACAACA 1260
Db 3816 TCCTGCAGATTATTAATTGTTGACCACTATTATGACCGCTGGAGCAAGACACAACA 3875
Qy 1261 AATTGTCAAAGTCCCTCTCTGCGTGATATGTGTGAACCTGCTGTAATGTTATG 1320
Db 3876 AATTGTCAAAGTCCCTCTCTGCGTGATATGTGTGAACCTGCTGTAATGTTATG 3935
Qy 1321 ATACGGGACGAACAGGAGAGATCCGTCTGTCTTTTAAACTGGCATCATTTCCCTGT 1380
Db 3936 ATACGGGACGAACAGGAGAGATCCGTCTGTCTTTTAAACTGGCATCATTTCCCTGT 3995
Qy 1381 GTAAAGCATTTTGAAGACAAGTACATACCTTTTCAAGCAAGTGGCAAGTTCAACAG 1440
Db 3996 GTAAAGCATTTTGAAGACAAGTACATACCTTTTCAAGCAAGTGGCAAGTTCAACAG 4055
Qy 1441 GATTTGTGACCAAGCGCAGGCTGGGCTCTCTGTCATGATTTCAATTCCAAATTCCAAGAC 1500
Db 4056 GATTTGTGACCAAGCGCAGGCTGGGCTCTCTGTCATGATTTCAATTCCAAATTCCAAGAC 4115
Qy 1501 A 1501
Db 4116 A 4116

RESULT 8

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US-09-845-416-35
; Sequence 35, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845,416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 35
; LENGTH: 4848
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-09-845-416-35
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Query Match 100.0%; Score 1501; DB 10; Length 4848;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1501; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 1 CTCACACAGATGTTTATCACAACCTGGATGAAAAAGCCAAATAATCCTGAGATCCCTGG 60
Db 2639 CTCACACAGATGTTTATCACAACCTGGATGAAAAAGCCAAATAATCCTGAGATCCCTGG 2698
QY 61 AAGTTCGATGATGACGTCCTGTTACAAAGAAGCTTTGGATAACATGAATCTTCAAGTGA 120
Db 2699 AAGTTCGATGATGACGTCCTGTTACAAAGAAGCTTTGGATAACATGAATCTTCAAGTGA 2758
QY 121 GTGAACCTTCGAAAAAGTCTCTCAACATTAGTCCCATTTGGAAAGCCAGTTCTGACCAAGT 180
Db 2759 GTGAACCTTCGAAAAAGTCTCTCAACATTAGTCCCATTTGGAAAGCCAGTTCTGACCAAGT 2818
QY 181 GGAAGCGTCTGCACCTTTCTCTGCAGGAAGCTTGTGTGTGCTACAGCTGAAGATGATG 240
Db 2819 GGAAGCGTCTGCACCTTTCTCTGCAGGAAGCTTGTGTGTGCTACAGCTGAAGATGATG 2878
QY 241 AATTAAGCCGGCAGGACCTATTGGAGGCGGACTTTCCAGCAGTTCAAGAGCAGAACGATG 300
Db 2879 AATTAAGCCGGCAGGACCTATTGGAGGCGGACTTTCCAGCAGTTCAAGAGCAGAACGATG 2938
QY 301 TACATAGGGCCCTTCAAGAGGGAATTGAAAACTAAAGAACCTGTAAATCATGAGTACTCTTG 360
Db 2939 TACATAGGGCCCTTCAAGAGGGAATTGAAAACTAAAGAACCTGTAAATCATGAGTACTCTTG 2998
QY 361 AGACTGTACGAATATTTCTGACAGAGCAGCCTTTGGAAGGACTAGAGAAACTCTACCAAG 420
Db 2999 AGACTGTACGAATATTTCTGACAGAGCAGCCTTTGGAAGGACTAGAGAAACTCTACCAAG 3058
QY 421 AGCCAGAGAGCTGCTCTCTGAGGAGAGCCAGAAATGTCACTCGGCTTCTACGAAGC 480
Db 3059 AGCCAGAGAGCTGCTCTCTGAGGAGAGCCAGAAATGTCACTCGGCTTCTACGAAGC 3118
QY 481 AGGCTGAGAGGTCATATCTGAGTGGAAAAAATTGAACTGCACTCCGCTGACTGGCAGA 540
Db 3119 AGGCTGAGAGGTCATATCTGAGTGGAAAAAATTGAACTGCACTCCGCTGACTGGCAGA 3178
QY 541 GAAAAATAGATGAGACCCCTTGAAGACTCCAGGAACCTTCAAGAGGCCACGGATGAGCTGG 600
Db 3179 GAAAAATAGATGAGACCCCTTGAAGACTCCAGGAACCTTCAAGAGGCCACGGATGAGCTGG 3238
QY 601 ACCTCAAGCTGCGCCAAAGCTGAGGTGATCAAGGGATCTTGCGACAGCCGTGGCGCATCTCC 660
Db 3239 ACCTCAAGCTGCGCCAAAGCTGAGGTGATCAAGGGATCTTGCGACAGCCGTGGCGCATCTCC 3298
QY 661 TCATTGACTCTCTCCAAGATCACTCGAGAAAGTCAAGGCACTTCGAGGAGAAATTGCGC 720
Db 3299 TCATTGACTCTCTCCAAGATCACTCGAGAAAGTCAAGGCACTTCGAGGAGAAATTGCGC 3358
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QY 721 CTCTGAAAGAGAACGTGAGCCACGTCATGACCTTGCTCGCCAGCTTACCACTTTGGGCA 780
Db 3359 CTCTGAAAGAGAACGTGAGCCACGTCATGACCTTGCTCGCCAGCTTACCACTTTGGGCA 3418
QY 781 TTCAGCTCTACCGTATTAACCTCAGACCTCTGGAAGACCTGAACCAAGATGGAAGCTTC 840
Db 3419 TTCAGCTCTACCGTATTAACCTCAGACCTCTGGAAGACCTGAACCAAGATGGAAGCTTC 3478
QY 841 TGCAGTGGCCGTCGAGGACCGAGTCAGGCACTGCATGAAGCCACAGGACTTTGGTC 900
Db 3479 TGCAGTGGCCGTCGAGGACCGAGTCAGGCACTGCATGAAGCCACAGGACTTTGGTC 3538
QY 901 CAGCATCTGACACTTTCTTTCCAGCTCTGTCCAGGGTCCCTGGGAGAGAGCCATCTGC 960
Db 3539 CAGCATCTGACACTTTCTTTCCAGCTCTGTCCAGGGTCCCTGGGAGAGAGCCATCTGC 3598
QY 961 CAAACAAGTGCCTACTATATCAACCAAGACTCAACAACTTGCTGGAGCCATCCCA 1020
Db 3599 CAAACAAGTGCCTACTATATCAACCAAGACTCAACAACTTGCTGGAGCCATCCCA 3658
QY 1021 AAATGACAGAGCTCTACCAAGTCTTTAGCTGACCTGAATATGTCAAGATTCTCAGCTTATA 1080
Db 3659 AAATGACAGAGCTCTACCAAGTCTTTAGCTGACCTGAATATGTCAAGATTCTCAGCTTATA 3718
QY 1081 GGACTGCCATGAAACTCCGAGACTGCAAGAGGCCCTTTGCTTGATCTCTTGAGCCTGT 1140
Db 3719 GGACTGCCATGAAACTCCGAGACTGCAAGAGGCCCTTTGCTTGATCTCTTGAGCCTGT 3778
QY 1141 CAGCTGCATGTGATGCTTGGAACCAAGCAACCTCAAGCAAAATGACCAAGCCATGATA 1200
Db 3779 CAGCTGCATGTGATGCTTGGAACCAAGCAACCTCAAGCAAAATGACCAAGCCATGATA 3838
QY 1201 TCCTGCAGATTATTAATTGTTTGACCACTATTATGACCGCCTGAGCAAGACAACA 1260
Db 3839 TCCTGCAGATTATTAATTGTTTGACCACTATTATGACCGCCTGAGCAAGACAACA 3898
QY 1261 ATTTGTCACAGCTCCTCTCTGCTGATATGTCTGAAGTGGCTGATGTTATG 1320
Db 3899 ATTTGTCACAGCTCCTCTCTGCTGATATGTCTGAAGTGGCTGATGTTATG 3958
QY 1321 ATACGGACGAACAGGAGGATCCGTCTCTCTTTTAAACCTGGCAATTTCCCTGT 1380
Db 3959 ATACGGACGAACAGGAGGATCCGTCTCTCTTTTAAACCTGGCAATTTCCCTGT 4018
QY 1381 GTAAAGCACATTTGGAAGACAAGTACAGATACCTTTTCAAGCAAGTGCAAGTCAACAG 1440
Db 4019 GTAAAGCACATTTGGAAGACAAGTACAGATACCTTTTCAAGCAAGTGCAAGTCAACAG 4078
QY 1441 GATTTGTGACGACGCGAGGCTGGGCTCCTTCTGCATGATTTATCCAAATTCAGAGAC 1500
Db 4079 GATTTGTGACGACGCGAGGCTGGGCTCCTTCTGCATGATTTATCCAAATTCAGAGAC 4138
QY 1501 A 1501
Db 4139 A 4139
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RESULT 9

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US-09-845-416-28
; Sequence 28, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845,416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 28
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; LENGTH: 4966
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-28

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Query Match      100.0%; Score 1501; DB 10; Length 4966;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 1501; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
  
QY      1 CTCACACAGATGTTATACAACTGGATGAAAACAGCCAAAATCTGAGATCCCTGG 60  
        |||||||  
DB      2757 CTCACACAGATGTTATACAACTGGATGAAAACAGCCAAAATCTGAGATCCCTGG 2816  
  
QY      61 AAGTTCCGATGATGACGTCCTGTTACAAAGAGTTGGATAACATGAATCTCAAGTGA 120  
        |||||||  
DB      2817 AAGTTCCGATGATGACGTCCTGTTACAAAGAGTTGGATAACATGAATCTCAAGTGA 2876  
  
QY      121 GTGAACCTCGGAAAAAGTCTCTCAACATTAGTCCCATTTTGGAGCCAGTTCTGACCAGT 180  
        |||||||  
DB      2877 GTGAACCTCGGAAAAAGTCTCTCAACATTAGTCCCATTTTGGAGCCAGTTCTGACCAGT 2936  
  
QY      181 GGAAGCGTGTGCACTTTCTCTGACGAACTTTGCTGTGGCTACAGCTGAAAGATGATG 240  
        |||||||  
DB      2937 GGAAGCGTGTGCACTTTCTCTGACGAACTTTGCTGTGGCTACAGCTGAAAGATGATG 2996  
  
QY      241 AATTAAGCCGGCAGGCACTTATTTGAGGCGCACTTTCAGCAGTTTCAAGAGCAAGAGATG 300  
        |||||||  
DB      2997 AATTAAGCCGGCAGGCACTTATTTGAGGCGCACTTTCAGCAGTTTCAAGAGCAAGAGATG 3056  
  
QY      301 TACATAGGGCTTCAAGAGGGAATTGAAAAGTAAAGAACTGTAACTGAGTACTCTTG 360  
        |||||||  
DB      3057 TACATAGGGCTTCAAGAGGGAATTGAAAAGTAAAGAACTGTAACTGAGTACTCTTG 3116  
  
QY      361 AGACTGTACGAATATTTCTGACAGAGCAGCTTTGGAAGAGCTAGAGAACTTACCAGG 420  
        |||||||  
DB      3117 AGACTGTACGAATATTTCTGACAGAGCAGCTTTGGAAGAGCTAGAGAACTTACCAGG 3176  
  
QY      421 AGCCCAAGAGCTGCTCTCTGAGAGAGAGCCCAAGATGTCACTCGGCTTCTACGAAAGC 480  
        |||||||  
DB      3177 AGCCCAAGAGCTGCTCTCTGAGAGAGAGCCCAAGATGTCACTCGGCTTCTACGAAAGC 3236  
  
QY      481 AGGCTGAGAGGTCATACTGAGTGGGAAAAATTGAACCTGCACTCCGCTGACTGGCAGA 540  
        |||||||  
DB      3237 AGGCTGAGAGGTCATACTGAGTGGGAAAAATTGAACCTGCACTCCGCTGACTGGCAGA 3296  
  
QY      541 GAAAAATAGATGAGACCCTTGAAAGACTCCAGAACTTCAAGAGGCCAGGATGAGCTGG 600  
        |||||||  
DB      3297 GAAAAATAGATGAGACCCTTGAAAGACTCCAGAACTTCAAGAGGCCAGGATGAGCTGG 3356  
  
QY      601 ACCTCAAGCTGCCCAAGCTGAGTGATCAAGGATCTCTGGCAGCCCGTGGCGATCTCC 660  
        |||||||  
DB      3357 ACCTCAAGCTGCCCAAGCTGAGTGATCAAGGATCTCTGGCAGCCCGTGGCGATCTCC 3416  
  
QY      661 TCATTGACTCTCTCCAAGATCACTCGAGAAAGTCAAGGCACTTCGAGGAGAAATTGCGC 720  
        |||||||  
DB      3417 TCATTGACTCTCTCCAAGATCACTCGAGAAAGTCAAGGCACTTCGAGGAGAAATTGCGC 3476  
  
QY      721 CTCTGAAAGAGACGTGAGCCACGTCAATGACCTTGCTGCGCAGCTTACACTTTGGGCA 780  
        |||||||  
DB      3477 CTCTGAAAGAGACGTGAGCCACGTCAATGACCTTGCTGCGCAGCTTACACTTTGGGCA 3536  
  
QY      781 TTCAGCTCTCACCGTATTAACCTCAGCACTCTGGAAGACCTGAACACCAAGATGGAAGCTTC 840  
        |||||||  
DB      3537 TTCAGCTCTCACCGTATTAACCTCAGCACTCTGGAAGACCTGAACACCAAGATGGAAGCTTC 3596  
  
QY      841 TGCAGGTGGCCGTGAGGACCGAGTCAAGGACGTGCATGAAGCCACAGGGACTTTGGTC 900  
        |||||||  
DB      3597 TGCAGGTGGCCGTGAGGACCGAGTCAAGGACGTGCATGAAGCCACAGGGACTTTGGTC 3656  
  
QY      901 CAGCATCTCAGCACTTTCTTTCCACGCTGTGTCCAGGGTCCCTGGAGAGAGCCATCTCGC 960  
        |||||||  
DB      3657 CAGCATCTCAGCACTTTCTTTCCACGCTGTGTCCAGGGTCCCTGGAGAGAGCCATCTCGC 3716
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QY      961 CAACAAAGTGCCCTACTATATCAACCAAGAGACTCAACAACTTGCTGGGACCATCCCA 1020  
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DB      3717 CAACAAAGTGCCCTACTATATCAACCAAGAGACTCAACAACTTGCTGGGACCATCCCA 3776  
  
QY      1021 AATGACAGAGCTCTACAGCTCTTACCTGACCTGATATATGTCAGATTCTCAGCTTATA 1080  
        |||||||  
DB      3777 AATGACAGAGCTCTACAGCTCTTACCTGACCTGATATATGTCAGATTCTCAGCTTATA 3836  
  
QY      1081 GACTGCCATGAAACTCCGAAAGCTGCAAGAGCCCTTGTGATCTCTTGAGCCTGT 1140  
        |||||||  
DB      3837 GACTGCCATGAAACTCCGAAAGCTGCAAGAGCCCTTGTGATCTCTTGAGCCTGT 3896  
  
QY      1141 CAGCTGCATGTGATGCCCTTGAGCCAGCACAACTCAAGCAAAATGACCAAGCCCATGATA 1200  
        |||||||  
DB      3897 CAGCTGCATGTGATGCCCTTGAGCCAGCACAACTCAAGCAAAATGACCAAGCCCATGATA 3956  
  
QY      1201 TCCTGCAGATTATTAATTGTTGACCACTATTATGACCCGCTGGAGCAAGACACAACA 1260  
        |||||||  
DB      3957 TCCTGCAGATTATTAATTGTTGACCACTATTATGACCCGCTGGAGCAAGACACAACA 4016  
  
QY      1261 ATTTGTCACGTCCTCTCTGCGTGAATATGTCTGAACCTGCTGTAATGTTATG 1320  
        |||||||  
DB      4017 ATTTGTCACGTCCTCTCTGCGTGAATATGTCTGAACCTGCTGTAATGTTATG 4076  
  
QY      1321 ATACGGAGCAACAGGAGGATCCGTCTCTTTTAAAACTGGCATCTTCCCTGT 1380  
        |||||||  
DB      4077 ATACGGAGCAACAGGAGGATCCGTCTCTTTTAAAACTGGCATCTTCCCTGT 4136  
  
QY      1381 GTAAAGCACTTTGGAAGACAAAGTACAGATACTTTTCAAGCAAGTGCAAGTTCACAG 1440  
        |||||||  
DB      4137 GTAAAGCACTTTGGAAGACAAAGTACAGATACTTTTCAAGCAAGTGCAAGTTCACAG 4196  
  
QY      1441 GATTTGTGACCAAGCGCAGGCTGGCTCTTCTGATGATTTCAATTCACAAATTCACAGAC 1500  
        |||||||  
DB      4197 GATTTGTGACCAAGCGCAGGCTGGCTCTTCTGATGATTTCAATTCACAAATTCACAGAC 4256  
  
QY      1501 A 1501  
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DB      4257 A 4257
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RESULT 10  
US-09-845-416-34  
; Sequence 34, Application US/09845416  
; Publication No. US20030171312A1  
; GENERAL INFORMATION:  
; APPLICANT: XIAO, XIAO  
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE  
; TITLE OF INVENTION: THEREOF  
; FILE REFERENCE: DE1142  
; CURRENT APPLICATION NUMBER: US/09/845,416  
; PRIOR FILING DATE: 2001-04-30  
; PRIOR APPLICATION NUMBER: 60/200,777  
; PRIOR FILING DATE: 2000-04-28  
; NUMBER OF SEQ ID NOS: 36  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 34  
; LENGTH: 4990  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-845-416-34
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Query Match      100.0%; Score 1501; DB 10; Length 4990;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 1501; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
  
QY      1 CTCACACAGATGTTATACAAACCTGGATGAAAACAGCCAAAATCTCTGAGATCCCTGG 60  
        |||||||  
DB      2781 CTCACACAGATGTTATACAAACCTGGATGAAAACAGCCAAAATCTCTGAGATCCCTGG 2840  
  
QY      61 AAGTTCCGATGATGACGTCCTGTTACAAAGAGCGTTGGATTAACATGAATCTCAAGTGA 120  
        |||||||  
DB      2841 AAGTTCCGATGATGACGTCCTGTTACAAAGAGCGTTGGATTAACATGAATCTCAAGTGA 2900
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QY 121 GTGAACCTTCGAAAAAGTCTCTCAACATTAAGTCCCATTTGGAAGCCAGTCTGACCAGT 180
 Db 2901 GTGAACCTTCGAAAAAGTCTCTCAACATTAAGTCCCATTTGGAAGCCAGTCTGACCAGT 2960
 QY 181 GGAAGCGTCTGCACCTTTCTCTGCAGAGAACTTCTGTGTGGCTACAGCTGAAGATGATG 240
 Db 2961 GGAAGCGTCTGCACCTTTCTCTGCAGAGAACTTCTGTGTGGCTACAGCTGAAGATGATG 3020
 QY 241 AATTAGCCGGCAGGCACTTATTGGAGGCGACTTTCAGACAGTTCAAGACGAAATG 300
 Db 3021 AATTAGCCGGCAGGCACTTATTGGAGGCGACTTTCAGACAGTTCAAGACGAAATG 3080
 QY 301 TACATAGGGCTTCAAGAGGGAATTGAAAACTAAGAACCTGTAATCATGAGTACTCTTG 360
 Db 3081 TACATAGGGCTTCAAGAGGGAATTGAAAACTAAGAACCTGTAATCATGAGTACTCTTG 3140
 QY 361 AGACTGTACGAATATTTCTGACAGACAGCCTTTGGAAGGACTAGAGAACTCTACAGG 420
 Db 3141 AGACTGTACGAATATTTCTGACAGACAGCCTTTGGAAGGACTAGAGAACTCTACAGG 3200
 QY 421 AGCCGACAGAGCTGCTCCTCTGAGAGAGAGCCCAAGATGCACTCGGCTTCTACGAAAGC 480
 Db 3201 AGCCGACAGAGCTGCTCCTCTGAGAGAGAGCCCAAGATGCACTCGGCTTCTACGAAAGC 3260
 QY 481 AGGCTGAGAGGTCATATCTGAGTGGGAAAAATTTGAACCTGCACTCCGCTGACTGGCAGA 540
 Db 3261 AGGCTGAGAGGTCATATCTGAGTGGGAAAAATTTGAACCTGCACTCCGCTGACTGGCAGA 3320
 QY 541 GAAAAATAGATGAGACCTTTGAAAGACTCCAGGAATTTCAAGAGGCCACGGATGAGCTGG 600
 Db 3321 GAAAAATAGATGAGACCTTTGAAAGACTCCAGGAATTTCAAGAGGCCACGGATGAGCTGG 3380
 QY 601 ACCTCAAGCTGCGCCAAAGTGAAGTGTATCAAGGATCCTGGCAGCCCGTGGCGATCTCC 660
 Db 3381 ACCTCAAGCTGCGCCAAAGTGAAGTGTATCAAGGATCCTGGCAGCCCGTGGCGATCTCC 3440
 QY 661 TCATTGACTCTCTCCAAGATCACTCGAGAAAGTCAAGGCACTTCGAGAGAAAAATTGCGC 720
 Db 3441 TCATTGACTCTCTCCAAGATCACTCGAGAAAGTCAAGGCACTTCGAGAGAAAAATTGCGC 3500
 QY 721 CTCTGAAAGAGAGCTGAGCCCAAGTCAATGACCTTGCTCGCCAGCTTACCACTTTGGGCA 780
 Db 3501 CTCTGAAAGAGAGCTGAGCCCAAGTCAATGACCTTGCTCGCCAGCTTACCACTTTGGGCA 3560
 QY 781 TTCAGCTCTCAACCGTATAAAGTCAAGCACTCTGGAAGACCTGAAACACAGATGGAAGCTTC 840
 Db 3561 TTCAGCTCTCAACCGTATAAAGTCAAGCACTCTGGAAGACCTGAAACACAGATGGAAGCTTC 3620
 QY 841 TGCAGGTGGCGCTGAGAGACCGAGTCAAGGAGCTGCATGAAGCCCAAGGAACTTTGGTC 900
 Db 3621 TGCAGGTGGCGCTGAGAGACCGAGTCAAGGAGCTGCATGAAGCCCAAGGAACTTTGGTC 3680
 QY 901 CAGCATCTCAGCACTTTCTTCCACAGTCTGTCCAGGGTCCCTGGGAGAGAGCCATCTCGC 960
 Db 3681 CAGCATCTCAGCACTTTCTTCCACAGTCTGTCCAGGGTCCCTGGGAGAGAGCCATCTCGC 3740
 QY 961 CAACAAAGTGGCCCTACTATATCAACCAAGAGACTCAAAACAATTTGCTGGACCATCCCA 1020
 Db 3741 CAACAAAGTGGCCCTACTATATCAACCAAGAGACTCAAAACAATTTGCTGGACCATCCCA 3800
 QY 1021 AAATGACAGAGCTTACCAGTCTTAAAGCTGAGCTGAATAATGTCAAGTCTCAGCTTATA 1080
 Db 3801 AAATGACAGAGCTTACCAGTCTTAAAGCTGAGCTGAATAATGTCAAGTCTCAGCTTATA 3860
 QY 1081 GGAAGCGTCTGCACCTTCTGACAGACAGAGGCGCTTGGCTGGATCTCTTGAGCGCTGT 1140
 Db 3861 GGAAGCGTCTGCACCTTCTGACAGACAGAGGCGCTTGGCTGGATCTCTTGAGCGCTGT 3920
 QY 1141 CAGCTGCATGTGATGCTTGGACAGACACAACCTCAAGCAAAATGACAGCCCATGAGATA 1200
 Db 3921 CAGCTGCATGTGATGCTTGGACAGACACAACCTCAAGCAAAATGACAGCCCATGAGATA 3980

QY 1201 TCCTGCAGATTATTAATTGTTTGACCACTATTATGACCGCCTGGAGCAAGACACACA 1260
 Db 3981 TCCTGCAGATTATTAATTGTTTGACCACTATTATGACCGCCTGGAGCAAGACACACA 4040
 QY 1261 ATTTGGTCAACGTCCTCTCTGCGTGAATATGTGTGAACCTGGCTGCTGAATGTTATG 1320
 Db 4041 ATTTGGTCAACGTCCTCTCTGCGTGAATATGTGTGAACCTGGCTGCTGAATGTTATG 4100
 QY 1321 ATACGGAGCAACAGGAGGATCCGTCTCTGCTTTTAAACTGGCATCATTTCCCTGT 1380
 Db 4101 ATACGGAGCAACAGGAGGATCCGTCTCTGCTTTTAAACTGGCATCATTTCCCTGT 4160
 QY 1381 GTAAAGCAATTTGGAAGACAAAGTACAGATACCTTTTCAAGCAAGTGCCAAAGTCAACAG 1440
 Db 4161 GTAAAGCAATTTGGAAGACAAAGTACAGATACCTTTTCAAGCAAGTGCCAAAGTCAACAG 4220
 QY 1441 GATTTGTGACCAAGCGCAGGCTGGGCTCCTTCTGCATGATTTCTAATTCAAATTCAGAGC 1500
 Db 4221 GATTTGTGACCAAGCGCAGGCTGGGCTCCTTCTGCATGATTTCTAATTCAAATTCAGAGC 4280
 QY 1501 A 1501
 Db 4281 A 4281

RESULT 11
 US-09-845-416-36
 ; Sequence 36, Application US/09845416
 ; Publication No. US20030171312A1
 ; GENERAL INFORMATION:
 ; APPLICANT: XIAO, XIAO
 ; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
 ; FILE REFERENCE: DE1142
 ; CURRENT APPLICATION NUMBER: US/09/845,416
 ; PRIOR FILING DATE: 2001-04-30
 ; PRIOR APPLICATION NUMBER: 60/200,777
 ; NUMBER OF SEQ ID NOS: 36
 ; SOFTWARE: Patent In Ver. 2.1
 ; SEQ ID NO 36
 ; LENGTH: 5060
 ; TYPE: DNA
 ; ORGANISM: Homo sapiens
 US-09-845-416-36

Query Match 100.0%; Score 1501; DB 10; Length 5060;
 Best Local Similarity 100.0%; Pred. No. 0;
 Matches 1501; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 CTCACACAGATGTTTATCACAACCTGATGAAAAACAGCCAAAAATCCTGAGATCCCTGG 60
 Db 2851 CTCACACAGATGTTTATCACAACCTGATGAAAAACAGCCAAAAATCCTGAGATCCCTGG 2910
 QY 61 AAGGTTCCGATGATGCACTCTCTGTACAAAGACGTTTGATTAACATGAACCTCAAGTGA 120
 Db 2911 AAGGTTCCGATGATGCACTCTCTGTACAAAGACGTTTGATTAACATGAACCTCAAGTGA 2970
 QY 121 GTGAACCTTCGAAAAAGTCTCTCAACATTAGTCCCATTTGGAAGCCAGTTCTGACCAGT 180
 Db 2971 GTGAACCTTCGAAAAAGTCTCTCAACATTAGTCCCATTTGGAAGCCAGTTCTGACCAGT 3030
 QY 181 GGAAGCGTCTGCACCTTCTCTGAGGAACCTTGTGTGGCTACAGCTGAAGATGATG 240
 Db 3031 GGAAGCGTCTGCACCTTCTCTGAGGAACCTTGTGTGGCTACAGCTGAAGATGATG 3090
 QY 241 AATTAGCCGGCAGGCACTTATGAGGCGCACTTTCAGCAGTTCAAGACAGACGATG 300
 Db 3091 AATTAGCCGGCAGGCACTTATGAGGCGCACTTTCAGCAGTTCAAGACAGACGATG 3150
 QY 301 TACATAGGGCTTCAAGAGGGAATTGAAAACTAAGAACTGTATCATGAGTACTCTTG 360
 Db 3151 TACATAGGGCTTCAAGAGGGAATTGAAAACTAAGAACTGTATCATGAGTACTCTTG 3210

QY 361 AGACTGTACGATATTTCTGACAGACGCTTTGGAAAGGACTAGAGAACTCTACCAGG 420
 DB 3211 AGACTGTACGATATTTCTGACAGACGCTTTGGAAAGGACTAGAGAACTCTACCAGG 3270
 QY 421 AGCCGAGAGAGCTGCCCTCTGAGGAGAGAGCCGAGATGTCACTCGGCTTCTACGAAAGC 480
 DB 3271 AGCCGAGAGAGCTGCCCTCTGAGGAGAGAGCCGAGATGTCACTCGGCTTCTACGAAAGC 3330
 QY 481 AGGCTGAGAGGTCATATCTGAGTGGGAAAAATTGAACCTGCACTCCGCTGACTGGCAGA 540
 DB 3331 AGGCTGAGAGGTCATATCTGAGTGGGAAAAATTGAACCTGCACTCCGCTGACTGGCAGA 3390
 QY 541 GAAAAATAGATGAGACCCCTTGAAAGACTCCAGAACTTCAAGAGGCCAGGATGAGCTGG 600
 DB 3391 GAAAAATAGATGAGACCCCTTGAAAGACTCCAGAACTTCAAGAGGCCAGGATGAGCTGG 3450
 QY 601 ACCTCAAGCTGGCCCAAGCTGAGGTGATCAAGGGATCCTGGCAGCCCGTGGCGATCTCC 660
 DB 3451 ACCTCAAGCTGGCCCAAGCTGAGGTGATCAAGGGATCCTGGCAGCCCGTGGCGATCTCC 3510
 QY 661 TCATTGACTCTCTCCAAAGATCACTCGAGAAAGTCAAGGCACTTCGAGAGAAATTGCGC 720
 DB 3511 TCATTGACTCTCTCCAAAGATCACTCGAGAAAGTCAAGGCACTTCGAGAGAAATTGCGC 3570
 QY 721 CTCTGAAAGAGAACTGAGCCAGCTCAATGACCTTGCTGCCAGCTTACCACTTTGGGCA 780
 DB 3571 CTCTGAAAGAGAACTGAGCCAGCTCAATGACCTTGCTGCCAGCTTACCACTTTGGGCA 3630
 QY 781 TTCAGCTCTCAACGTTATTAACCTCAGCACTCTGGAAGACCTGAAACACAGATGGAAGCTTC 840
 DB 3631 TTCAGCTCTCAACGTTATTAACCTCAGCACTCTGGAAGACCTGAAACACAGATGGAAGCTTC 3690
 QY 841 TGCAGGTGGCCGTCGAGAGCCGAGTCAAGGCTGATGAAGCCCAAGGGACTTTGGTC 900
 DB 3691 TGCAGGTGGCCGTCGAGAGCCGAGTCAAGGCTGATGAAGCCCAAGGGACTTTGGTC 3750
 QY 901 CAGCATCTCAGCACTTTCTTCCACGCTGTCTCCAGGGTCCCTGGAGAGAGCCATCTCGC 960
 DB 3751 CAGCATCTCAGCACTTTCTTCCACGCTGTCTCCAGGGTCCCTGGAGAGAGCCATCTCGC 3810
 QY 961 CAAACAAAGTGCCCTACTATATCAACCAAGAGACTCAAACTGCTGGGACCATCCCA 1020
 DB 3811 CAAACAAAGTGCCCTACTATATCAACCAAGAGACTCAAACTGCTGGGACCATCCCA 3870
 QY 1021 AAATGACAGAGCTCTACAGTCTTTAGCTGACCTGAATATGTCAATTTCTCAGCTTATA 1080
 DB 3871 AAATGACAGAGCTCTACAGTCTTTAGCTGACCTGAATATGTCAATTTCTCAGCTTATA 3930
 QY 1081 GGACTGCCATGAATCTCCGAAGACTGAGAAAGCCCTTGTGATCTCTGAGCCTGT 1140
 DB 3931 GGACTGCCATGAATCTCCGAAGACTGAGAAAGCCCTTGTGATCTCTGAGCCTGT 3990
 QY 1141 CAGCTGCATGTGATGCTTGGACCAAGCAACTCAAGCAAAATGACGAGCCCATGGATA 1200
 DB 3991 CAGCTGCATGTGATGCTTGGACCAAGCAACTCAAGCAAAATGACGAGCCCATGGATA 4050
 QY 1201 TCCTGCAGATTTAATTTGTTGACCACTATTATGACCGCCTGGAGAGAGACACAACA 1260
 DB 4051 TCCTGCAGATTTAATTTGTTGACCACTATTATGACCGCCTGGAGAGAGACACAACA 4110
 QY 1261 ATTTGGTCAAGCTCCCTCTCTGCGTGATATGTCTGAACTGGCTGCTGAATGTTATG 1320
 DB 4111 ATTTGGTCAAGCTCCCTCTCTGCGTGATATGTCTGAACTGGCTGCTGAATGTTATG 4170
 QY 1321 ATACGGAGAGCAAGGAGGATCCGTCTCTGCTTTTAAACTGCGCATTTCCCTGT 1380
 DB 4171 ATACGGAGAGCAAGGAGGATCCGTCTCTGCTTTTAAACTGCGCATTTCCCTGT 4230
 QY 1381 GTAAAGCACATTTTGAAGACAGATACAGATCTTTCAAGCAAGTGGCAAGTTCAACAG 1440
 DB 4231 GTAAAGCACATTTTGAAGACAGATACAGATCTTTCAAGCAAGTGGCAAGTTCAACAG 4290

QY 1441 GATTTGTGACGAGCGCAGGCTGGGCTCTCTGTCATGATTTATCCAAATTCAGAGAC 1500
 DB 4291 GATTTGTGACGAGCGCAGGCTGGGCTCTCTGTCATGATTTATCCAAATTCAGAGAC 4350
 QY 1501 A 1501
 DB 4351 A 4351

RESULT 12
 US-09-845-416-27
 ; Sequence 27, Application US/09845416
 ; Publication No. US20030171312A1
 ; GENERAL INFORMATION:
 ; APPLICANT: XIAO, XIAO
 ; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
 ; FILE REFERENCE: THEREOF
 ; FILE REFERENCE: DE1142
 ; CURRENT APPLICATION NUMBER: US/09/845,416
 ; PRIOR FILING DATE: 2001-04-30
 ; PRIOR APPLICATION NUMBER: 60/200,777
 ; PRIOR FILING DATE: 2000-04-28
 ; NUMBER OF SEQ ID NOS: 36
 ; SOFTWARE: PatentIn Ver. 2.1
 ; SEQ ID NO 27
 ; LENGTH: 5149
 ; TYPE: DNA
 ; ORGANISM: Homo sapiens
 US-09-845-416-27

Query Match 100.0%; Score 1501; DB 10; Length 5149;
 Best Local Similarity 100.0%; Pred. No. 0;
 Matches 1501; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CTACACAGATGTTTATCACAACCTGGATGAAAAACAGCCAAAAATTCCTGAGATCCCTGG 60
 DB 2940 CTACACAGATGTTTATCACAACCTGGATGAAAAACAGCCAAAAATTCCTGAGATCCCTGG 2999
 QY 61 AAGGTCCGATGATGAGTCCCTGTTCAAAAGCGTTGGATTAACATGAACCTTCAAGTGA 120
 DB 3000 AAGGTCCGATGATGAGTCCCTGTTCAAAAGCGTTGGATTAACATGAACCTTCAAGTGA 3059
 QY 121 GTGAACCTCGGAAAAAGTCTCTCAACATTAAGTCCCATTTGAGGCCAGTTCTGACCAGT 180
 DB 3060 GTGAACCTCGGAAAAAGTCTCTCAACATTAAGTCCCATTTGAGGCCAGTTCTGACCAGT 3119
 QY 181 GGAAGCGTCTGCACTTCTCTGCGAGAACTTCTGTGTGGCTACAGCTGAAAGATGATG 240
 DB 3120 GGAAGCGTCTGCACTTCTCTGCGAGAACTTCTGTGTGGCTACAGCTGAAAGATGATG 3179
 QY 241 AATTAAAGCGGCAAGGCACTTATGAGCGCACTTCCAGCAGTTCAAGACGAGATG 300
 DB 3180 AATTAAAGCGGCAAGGCACTTATGAGCGCACTTCCAGCAGTTCAAGACGAGATG 3239
 QY 301 TACATAGGCGCTTCAAGAGGGAATTGAAAACTAAAGAACTGTAAATCATGACTCTTG 360
 DB 3240 TACATAGGCGCTTCAAGAGGGAATTGAAAACTAAAGAACTGTAAATCATGACTCTTG 3299
 QY 361 AGACTGTACGATATTTCTGACAGAGCCTTTGGAAGACTGAGAACTCTACCAGG 420
 DB 3300 AGACTGTACGATATTTCTGACAGAGCCTTTGGAAGACTGAGAACTCTACCAGG 3359
 QY 421 AGCCGAGAGAGCTGCTCTGAGAGAGAGCCCAAGATGTCACTCGGCTTCTACGAAAGC 480
 DB 3360 AGCCGAGAGAGCTGCTCTGAGAGAGAGCCCAAGATGTCACTCGGCTTCTACGAAAGC 3419
 QY 481 AGGCTGAGAGGTCAATACCTGAGTGGGAAAAATTGAACCTGCACTCCGCTGACTGGCAGA 540
 DB 3420 AGGCTGAGAGGTCAATACCTGAGTGGGAAAAATTGAACCTGCACTCCGCTGACTGGCAGA 3479
 QY 541 GAAAAATAGATGAGACCCCTTGAAGACTCCAGGAACCTTCAAGAGGCCACGATGAGCTGG 600
 DB 3480 GAAAAATAGATGAGACCCCTTGAAGACTCCAGGAACCTTCAAGAGGCCACGATGAGCTGG 3539

QY 601 ACCTCAAGCTGCGCCAAAGCTGAGGTGATCAAGGATCCTGGCAGCCCGTGGCGATCTCC 660
DB 3540 ACCTCAAGCTGCGCCAAAGCTGAGGTGATCAAGGATCCTGGCAGCCCGTGGCGATCTCC 3599
QY 661 TCATTGACTCTCTCAAGATCACTCCGAGAAAGTCAAGGCACCTTCGAGAGAAATTCGCG 720
DB 3600 TCATTGACTCTCTCAAGATCACTCCGAGAAAGTCAAGGCACCTTCGAGAGAAATTCGCG 3659
QY 721 CTCTGAAAGAGAAAGTGAAGCCAGCTCAATGAACCTTGCTCGCCAGCTTACCACTTTGGGCA 780
DB 3660 CTCTGAAAGAGAAAGTGAAGCCAGCTCAATGAACCTTGCTCGCCAGCTTACCACTTTGGGCA 3719
QY 781 TTCAGCTCTCAACCGTATTAACCTCAGCACTCTGGAAGACCTGAACACAGATGAAGCTTC 840
DB 3720 TTCAGCTCTCAACCGTATTAACCTCAGCACTCTGGAAGACCTGAACACAGATGAAGCTTC 3779
QY 841 TGCAGGTGGCCGTCGAGGACCGAGTCAGGCTGATGAAGCCACAGGAGCTTTGGTC 900
DB 3780 TGCAGGTGGCCGTCGAGGACCGAGTCAGGCTGATGAAGCCACAGGAGCTTTGGTC 3839
QY 901 CAGCATCTCAGCACTTTCTTCCACGTCTGTCCAGGTCCTCGGAGAGAGCCATCTCGC 960
DB 3840 CAGCATCTCAGCACTTTCTTCCACGTCTGTCCAGGTCCTCGGAGAGAGCCATCTCGC 3899
QY 961 CAAACAAAGTGCCCTACTATATCAACCAAGAGACTCAACCAACTTGTGCGGACCATCCCA 1020
DB 3900 CAAACAAAGTGCCCTACTATATCAACCAAGAGACTCAACCAACTTGTGCGGACCATCCCA 3959
QY 1021 AAATGACAGAGCTCTACAGCTTTTAACTGACCTGAATTAATGTCAAGATTTCAAGCTTATA 1080
DB 3960 AAATGACAGAGCTCTACAGCTTTTAACTGACCTGAATTAATGTCAAGATTTCAAGCTTATA 4019
QY 1081 GGAAGCTGCAAGAACTCCGAAGACTGCAGAGAGCCCTTTGCTTGATCTTTGAGCCTGT 1140
DB 4020 GGAAGCTGCAAGAACTCCGAAGACTGCAGAGAGCCCTTTGCTTGATCTTTGAGCCTGT 4079
QY 1141 CAGCTGCATGTGATGCTTGGACCAAGCAACCTCAAGCAAAATGACAGCCCATGATA 1200
DB 4080 CAGCTGCATGTGATGCTTGGACCAAGCAACCTCAAGCAAAATGACAGCCCATGATA 4139
QY 1201 TCCTGCAGATTAATTAATTTTGAACCACTAATTTATGACCGCCTGGAGCAAGACAAACA 1260
DB 4140 TCCTGCAGATTAATTAATTTTGAACCACTAATTTATGACCGCCTGGAGCAAGACAAACA 4199
QY 1261 ATTTGTCACGTCCTCTCTGCGTGATGTGTCTGAACCTGCTGCTGAATGTTATG 1320
DB 4200 ATTTGTCACGTCCTCTCTGCGTGATGTGTCTGAACCTGCTGCTGAATGTTATG 4259
QY 1321 ATACGGAGCAACAAGGAGATCCGTGTCTGCTTTTAAACTGGCATCATTTCCCTGT 1380
DB 4260 ATACGGAGCAACAAGGAGATCCGTGTCTGCTTTTAAACTGGCATCATTTCCCTGT 4319
QY 1381 GTAAGCACATTTTGAAGACAAGTACAGATACCTTTTCAAGCAAGTGCAAGTTCAACAG 1440
DB 4320 GTAAGCACATTTTGAAGACAAGTACAGATACCTTTTCAAGCAAGTGCAAGTTCAACAG 4379
QY 1441 GATTTTGTGACCAAGCGCAGGCTGGGCTCTTCTGCATGATTTCTATCCAAATTCAGAGAC 1500
DB 4380 GATTTTGTGACCAAGCGCAGGCTGGGCTCTTCTGCATGATTTCTATCCAAATTCAGAGAC 4439
QY 1501 A 1501
DB 4440 A 4440

RESULT 13
US-10-149-736-40
; Sequence 40, Application US/10149736
; Publication No. US20030216332A1
; GENERAL INFORMATION:
; APPLICANT: Chamberlain, Jeffrey S.
; APPLICANT: Harper, Scott Q.

; TITLE OF INVENTION: Mini-Dystrophin Nucleic Acids and Peptide Sequences
; FILE REFERENCE: UM-06968
; CURRENT APPLICATION NUMBER: US/10/149,736
; CURRENT FILING DATE: 2002-06-17
; PRIOR APPLICATION NUMBER: PCT/US01/31126
; PRIOR FILING DATE: 2001-10-04
; PRIOR APPLICATION NUMBER: 60/238,848
; PRIOR FILING DATE: 2000-10-06
; NUMBER OF SEQ ID NOS: 96
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 40
; LENGTH: 5339
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic
US-10-149-736-40

Query Match 100.0%; Score 1501; DB 17; Length 5339;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1501; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CTCAACAGATGTTTATCAAACTGATGAAGAAACAGCCAAAATCTGAGATCCCTGG 60
DB 1725 CTCAACAGATGTTTATCAAACTGATGAAGAAACAGCCAAAATCTGAGATCCCTGG 1784
QY 61 AAGGTTCCGATGATGACGCTCTGTACAAAGACGTTTGATTAACATGAATCAAGTGA 120
DB 1785 AAGGTTCCGATGATGACGCTCTGTACAAAGACGTTTGATTAACATGAATCAAGTGA 1844
QY 121 GTGAACCTTGGAAAAAGTCTCTCAACATTAAGTCCCATTTGGAAGCCAGTTCTGACCAGT 180
DB 1845 GTGAACCTTGGAAAAAGTCTCTCAACATTAAGTCCCATTTGGAAGCCAGTTCTGACCAGT 1904
QY 181 GGAAGCGTCTGCACCTTTCTCTGCAGAACTTCTGTGTGCTACAGCTGAAGATGATG 240
DB 1905 GGAAGCGTCTGCACCTTTCTCTGCAGAACTTCTGTGTGCTACAGCTGAAGATGATG 1964
QY 241 AATTAAGCCGCGCAGGCACTATTGAGGCGACTTTCAGCAGTTCAAGACGAGACGATG 300
DB 1965 AATTAAGCCGCGCAGGCACTATTGAGGCGACTTTCAGCAGTTCAAGACGAGACGATG 2024
QY 301 TACATAGGCGCTTCAAGAGGGAATTTGAAAACTAAGAACCTGTAATCATGACTCTTTG 360
DB 2025 TACATAGGCGCTTCAAGAGGGAATTTGAAAACTAAGAACCTGTAATCATGACTCTTTG 2084
QY 361 AGACTGTACGATATTTCTGACAGAGCAGCCTTTGGAAGACTAGAGAACTCTACAGG 420
DB 2085 AGACTGTACGATATTTCTGACAGAGCAGCCTTTGGAAGACTAGAGAACTCTACAGG 2144
QY 421 AGCCAGAGAGCTGCTCTCTGAGAGAGAGCCAGAAATGTCACTCGGCTTACGAAAGC 480
DB 2145 AGCCAGAGAGCTGCTCTCTGAGAGAGAGCCAGAAATGTCACTCGGCTTACGAAAGC 2204
QY 481 AGGCTGAGAGGTCATATCTGAGTGGGAAAAATTTGAACCTGCACCTCGCTGACTGGCAGA 540
DB 2205 AGGCTGAGAGGTCATATCTGAGTGGGAAAAATTTGAACCTGCACCTCGCTGACTGGCAGA 2264
QY 541 GAAAAATAGATGAGACCCCTTGAAGAACTCCAGGAATTTCAAGAGGCCACGAGATGAGCTGG 600
DB 2265 GAAAAATAGATGAGACCCCTTGAAGAACTCCAGGAATTTCAAGAGGCCACGAGATGAGCTGG 2324
QY 601 ACCTCAAGCTGCGCCAAAGCTGAGGTGATCAAGGAACTCTGGCAGCCCGTGGCGATCTCC 660
DB 2325 ACCTCAAGCTGCGCCAAAGCTGAGGTGATCAAGGAACTCTGGCAGCCCGTGGCGATCTCC 2384
QY 661 TCATTGACTCTCTCAAGATCACTCCGAGAAAGTCAAGGCACCTTCGAGAGAAATTCGCG 720
DB 2385 TCATTGACTCTCTCAAGATCACTCCGAGAAAGTCAAGGCACCTTCGAGAGAAATTCGCG 2444
QY 721 CTCTGAAAGAGAAAGCTGAGCCACGTCATGACTTGTCTGCGCAGCTTACCACTTTGGGCA 780
DB 2445 CTCTGAAAGAGAAAGCTGAGCCACGTCATGACTTGTCTGCGCAGCTTACCACTTTGGGCA 2504

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QY 781 TTCAAGCTCTCAACCGTATATACCTCAGCACTCTGGAAGACCTGAACACAGATGGAAGCTTC 840
    |||
Db 2505 TTCAAGCTCTCAACCGTATATACCTCAGCACTCTGGAAGACCTGAACACAGATGGAAGCTTC 2564

QY 841 TGCAGGTGGCCGTCGAGGACCGAGTCAGGAGCTGCATGAAGCCCAAGGAACTTTGGTC 900
    |||
Db 2565 TGCAGGTGGCCGTCGAGGACCGAGTCAGGAGCTGCATGAAGCCCAAGGAACTTTGGTC 2624

QY 901 CAGCATCTCAGCACTTTCTTTCCACGCTGTCTCAGGGTCCCTGGAGAGAGCCATCTCGC 960
    |||
Db 2625 CAGCATCTCAGCACTTTCTTTCCACGCTGTCTCAGGGTCCCTGGAGAGAGCCATCTCGC 2684

QY 961 CAAACAAAGTGCCCTACTATATCAACCAAGACTCAAAACAATTGCTGGGAACTCCCA 1020
    |||
Db 2685 CAAACAAAGTGCCCTACTATATCAACCAAGACTCAAAACAATTGCTGGGAACTCCCA 2744

QY 1021 AAATGACAGAGCTCTACAGTCTTTAGCTGACCTGAATAATGTCAAGATTCTCAGCTTATA 1080
    |||
Db 2745 AAATGACAGAGCTCTACAGTCTTTAGCTGACCTGAATAATGTCAAGATTCTCAGCTTATA 2804

QY 1081 GGACTGCCATGAAACTCCGAAGCTGCAGAAAGGCCCTTGTGATCTTTGAGCCTGT 1140
    |||
Db 2805 GGACTGCCATGAAACTCCGAAGCTGCAGAAAGGCCCTTGTGATCTTTGAGCCTGT 2864

QY 1141 CAGCTGATGTGATGCTTGTGAGACGACAACTCAAGCAAAATGACAGCCCATGAGATA 1200
    |||
Db 2865 CAGCTGATGTGATGCTTGTGAGACGACAACTCAAGCAAAATGACAGCCCATGAGATA 2924

QY 1201 TCCTGCAATTAATTATTGTTGACCACTAATTATGACCGCCTGAGAGAGACACAACA 1260
    |||
Db 2925 TCCTGCAATTAATTATTGTTGACCACTAATTATGACCGCCTGAGAGAGACACAACA 2984

QY 1261 ATTTGGTCAACGTCCCTCTCTGCGTGGAATGTGTCTGAACGTGCTGAATGTTATG 1320
    |||
Db 2985 ATTTGGTCAACGTCCCTCTCTGCGTGGAATGTGTCTGAACGTGCTGAATGTTATG 3044

QY 1321 ATACGGGACGAACAGGGAGGATCCGTGTCTCTTTTAAACTGGAATCATTTCCCTGT 1380
    |||
Db 3045 ATACGGGACGAACAGGGAGGATCCGTGTCTCTTTTAAACTGGAATCATTTCCCTGT 3104

QY 1381 GTAAAGCACTTTGGAAGACAGTACAGATACCTTTCAAGCAAGTGGAAGTTCAACAG 1440
    |||
Db 3105 GTAAAGCACTTTGGAAGACAGTACAGATACCTTTCAAGCAAGTGGAAGTTCAACAG 3164

QY 1441 GATTTTGTGACCAAGCGCAGGCTGGCCTCTCTGATGATTTCTATCAAAATTCGAAGAC 1500
    |||
Db 3165 GATTTTGTGACCAAGCGCAGGCTGGCCTCTCTGATGATTTCTATCAAAATTCGAAGAC 3224

QY 1501 A 1501
    |
Db 3225 A 3225
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```
RESULT 14
US-10-149-736-41
; Sequence 41, Application US/10149736
; Publication No. US20030216332A1
; GENERAL INFORMATION:
; APPLICANT: Chamberlain, Jeffrey S.
; APPLICANT: Harper, Scott Q.
; TITLE OF INVENTION: Mini-Dystrophin Nucleic Acids and Peptide Sequences
; FILE REFERENCE: UM-06968
; CURRENT APPLICATION NUMBER: US/10/149, 736
; CURRENT FILING DATE: 2002-06-17
; PRIOR APPLICATION NUMBER: PCT/US01/31126
; PRIOR FILING DATE: 2001-10-04
; PRIOR APPLICATION NUMBER: 60/238, 848
; PRIOR FILING DATE: 2000-10-06
; NUMBER OF SEQ ID NOS: 96
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 41
; LENGTH: 5462
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; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic
US-10-149-736-41

Query Match      100.0%; Score 1501; DB 17; Length 5462;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1501; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CTACACAGATGTTTATCACAACTGGATGAAAACAGCCAAAATCCTGAGATCCCTGG 60
    |||
Db 1848 CTCACACAGATGTTTATCACAACTGGATGAAAACAGCCAAAATCCTGAGATCCCTGG 1907

QY 61 AAGTTCGATGATGCAAGTCCGTGTTACAAGAAGCTTTGGATTAACATGAACCTCAAGTGA 120
    |||
Db 1908 AAGTTCGATGATGCAAGTCCGTGTTACAAGAAGCTTTGGATTAACATGAACCTCAAGTGA 1967

QY 121 GTGAACCTTGGAAAAAGTCTCTCAACATTAAGTCCCATTTGGAGCCAGTTCTGACCAGT 180
    |||
Db 1968 GTGAACCTTGGAAAAAGTCTCTCAACATTAAGTCCCATTTGGAGCCAGTTCTGACCAGT 2027

QY 181 GGAAGCGTGCACCTTTCTCTGACGAACTTCTGTGTGCTACAGCTGAAAAGATGATG 240
    |||
Db 2028 GGAAGCGTGCACCTTTCTCTGACGAACTTCTGTGTGCTACAGCTGAAAAGATGATG 2087

QY 241 AATTAAGCCGACAGGACCTATTGGAGGCACTTTCCAGCAGTTGAAAGCAGAACGATG 300
    |||
Db 2088 AATTAAGCCGACAGGACCTATTGGAGGCACTTTCCAGCAGTTGAAAGCAGAACGATG 2147

QY 301 TACATAGGCGCTTCAAGAGGGAATTGAAAATAAAGAACCTGTATCATGAGTACTCTTG 360
    |||
Db 2148 TACATAGGCGCTTCAAGAGGGAATTGAAAATAAAGAACCTGTATCATGAGTACTCTTG 2207

QY 361 AGACTGTACGAATATTTCTGACAGAGAGCCCTTTGGAAGGACTAGAGAAAATCTACAGG 420
    |||
Db 2208 AGACTGTACGAATATTTCTGACAGAGAGCCCTTTGGAAGGACTAGAGAAAATCTACAGG 2267

QY 421 AGCCCAAGAGCTGCTCTCTGAGAGAGAGCCAGAAATGTCACTCGGCTTCAAGAAAGC 480
    |||
Db 2268 AGCCCAAGAGCTGCTCTCTGAGAGAGAGCCAGAAATGTCACTCGGCTTCAAGAAAGC 2327

QY 481 AGGCTGAGAGGTCAATACTGAGTGGGAAAAATTGAACCTGCACTCGCTGACTGGCAGA 540
    |||
Db 2328 AGGCTGAGAGGTCAATACTGAGTGGGAAAAATTGAACCTGCACTCGCTGACTGGCAGA 2387

QY 541 GAAAAATAGATGAGACCCCTTGAAAGACTCCAGGAACCTTCAAGAGGCCACGATGAGCTGG 600
    |||
Db 2388 GAAAAATAGATGAGACCCCTTGAAAGACTCCAGGAACCTTCAAGAGGCCACGATGAGCTGG 2447

QY 601 ACCTCAAGCTGCGCCAAAGCTGAGGTGATCAAGGGATCCTGGCAGCCGCTGGGCGATCTCC 660
    |||
Db 2448 ACCTCAAGCTGCGCCAAAGCTGAGGTGATCAAGGGATCCTGGCAGCCGCTGGGCGATCTCC 2507

QY 661 TCATTGACTCTCTCCAAGATCACTCGAAGAAAGTCAAGGCACTTCGAGAGAAATTGGCGC 720
    |||
Db 2508 TCATTGACTCTCTCCAAGATCACTCGAAGAAAGTCAAGGCACTTCGAGAGAAATTGGCGC 2567

QY 721 CTCTGAAGAGAAAGTGAGCCAGCTCAATGACCTTGCTCGCCAGCTTACCACTTTGGGCA 780
    |||
Db 2628 CTCTGAAGAGAAAGTGAGCCAGCTCAATGACCTTGCTCGCCAGCTTACCACTTTGGGCA 2687

QY 781 TTCAGCTCTCACCGTATTAACCTCAGCACTCTGGAAGACCTGAACCAAGATGGAAGCTTC 840
    |||
Db 841 TTCAGCTCTCACCGTATTAACCTCAGCACTCTGGAAGACCTGAACCAAGATGGAAGCTTC 900

QY 841 TGCAGGTGGCCGTCGAGGACCGAGTCAGGCAAGCTGCAAGGCAAGGAACTTTGGTC 900
    |||
Db 2688 TGCAGGTGGCCGTCGAGGACCGAGTCAGGCAAGCTGCAAGGCAAGGAACTTTGGTC 2747

QY 901 CAGCATCTCAGCACTTTCTTTCCACGCTGTCTCCAGGGTCCCTGGAGAGAGCCATCTCGC 960
    |||
Db 2748 CAGCATCTCAGCACTTTCTTTCCACGCTGTCTCCAGGGTCCCTGGAGAGAGCCATCTCGC 2807
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QY	961	CAAAACAAAGTGCCTCTACTATATCAACCAAGAGACTCAAAACAACTTGCTGGACCATCCCA	1020
Db	2808	CAAAACAAAGTGCCTCTACTATATCAACCAAGAGACTCAAAACAACTTGCTGGACCATCCCA	2867
QY	1021	AAATGACAGAGCTCTACCAGTCTTTAGCTGACCTGAATAATGTCAGATTCTCAGCTTATA	1080
Db	2868	AAATGACAGAGCTCTACCAGTCTTTAGCTGACCTGAATAATGTCAGATTCTCAGCTTATA	2927
QY	1081	GGACTGCCATGAAACTCCGAAGACTGCAGAAGGCCCTTGGCTTGATCTCTTGAGCCTGT	1140
Db	2928	GGACTGCCATGAAACTCCGAAGACTGCAGAAGGCCCTTGGCTTGATCTCTTGAGCCTGT	2987
QY	1141	CAGCTGCATGTGATGCTTGACCCAGACACACAACCTCAAGCAAAATGACCAAGCCCCATGGATA	1200
Db	2988	CAGCTGCATGTGATGCTTGACCCAGACACACAACCTCAAGCAAAATGACCAAGCCCCATGGATA	3047
QY	1201	TCCTGCAGATTATTAAATTGTTGACCACTATTATTAGACCGCCTGGAGCAAGAGACAACA	1260
Db	3048	TCCTGCAGATTATTAAATTGTTGACCACTATTATTAGACCGCCTGGAGCAAGAGACAACA	3107
QY	1261	ATTGGTCAACGTCCTCTCTGCGTGGATATGTGTGAACTGGCTGCTGAATGTTATG	1320
Db	3108	ATTGGTCAACGTCCTCTCTGCGTGGATATGTGTGAACTGGCTGCTGAATGTTATG	3167
QY	1321	ATACGGGACGACAGGAGCATCCGTGTCCTGTCTTTTAAAACTGGCATCATTTCCCTGT	1380
Db	3168	ATACGGGACGACAGGAGCATCCGTGTCCTGTCTTTTAAAACTGGCATCATTTCCCTGT	3227
QY	1381	GTAAGACACATTTGGGAAGACAAGTACAGATACCTTTCAAGCAAGTGGCAAGTTCACACAG	1440
Db	3228	GTAAGACACATTTGGGAAGACAAGTACAGATACCTTTCAAGCAAGTGGCAAGTTCACACAG	3287
QY	1441	GATTTGTGACCAAGCGCAGGCTGGGCTCCTTCTGCATGATTTCTATCCAAATTCACAAGAC	1500
Db	3288	GATTTGTGACCAAGCGCAGGCTGGGCTCCTTCTGCATGATTTCTATCCAAATTCACAAGAC	3347
QY	1501	A 1501	
Db	3348	A 3348	

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RESULT 15
US-10-149-736-42
; Sequence 42, Application US/10149736
; Publication No. US20030216332A1
; GENERAL INFORMATION:
; APPLICANT: Chamberlain, Jeffrey S.
; APPLICANT: Harper, Scott Q.
; TITLE OF INVENTION: Mnt1-Dystrophin Nucleic Acids and Peptide Sequences
; FILE REFERENCE: UM-06968
; CURRENT APPLICATION NUMBER: US/10/149,736
; PRIORITY FILING DATE: 2002-06-17
; PRIOR APPLICATION NUMBER: PCT/US01/31126
; PRIOR FILING DATE: 2001-10-04
; PRIOR APPLICATION NUMBER: 60/238,848
; PRIOR FILING DATE: 2000-10-06
; NUMBER OF SEQ ID NOS: 96
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 42
; LENGTH: 8689
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic
US-10-149-736-42

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Query Match	100.0%;	Score 1501;	DB 17;	Length 8689;
Best Local Similarity	100.0%;	Pred. No. 0;		
Matches 1501, Conservative	0;	Mismatches	0;	Indels 0;
				Gaps 0;

Qy 1 CTCACACAGATGTTTATCAACCTGGATGAAAAACGCCAAAAATCCTGAGATCCTGG 60
|||||

Db	3180	CTCACACAGATGTTTATTCACAACTGTGATGAAAAACGCCAAAAAATCTCGAGATCCCTGG	3239
QY	61	AAGGTTCCGATGATGCAGTCCCTGTTACAAAGACGTTTGGATTAATGAACCTTCAAGTGA	120
Db	3240	AAGGTTCCGATGATGCAGTCCCTGTTACAAAGACGTTTGGATTAATGAACCTTCAAGTGA	3299
QY	121	GTTGAACCTTCGGAAAAAGTCTCTCAACATTAAGTCCCATTTGGAAAGCCAGTTCTGACCA	180
Db	3300	GTTGAACCTTCGGAAAAAGTCTCTCAACATTAAGTCCCATTTGGAAAGCCAGTTCTGACCA	3359
QY	181	GGAAGCGTCTGCACCTTTCTCTGCAGGAACCTTCTGTGTGGCTACAGCTGAAGAATGATG	240
Db	3360	GGAAGCGTCTGCACCTTTCTCTGCAGGAACCTTCTGTGTGGCTACAGCTGAAGAATGATG	3419
QY	241	AATTAAGCCGCGCAGGACCACTTAATTGGAGCGCACTTTCACAGATTCAGAAAGCAATG	300
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QY	361	AGACTGTACGAATATTTCTGCACAGACAGCCTTTGGAAAGACTAGAAACTCTACCAAG	420
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QY	601	ACCTCAAGCTGGCGCAAGCTGAGGTGATCAAGGATCCTGGCAGCCCGTGGCGATCTCC	660
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Job time : 901.381 secs

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: March 2, 2005, 06:35:12 ; Search time 897.381 Seconds
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Title: US-09-845-416-9_COPY_2000_3500

Perfect score: 1501

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Scoring table: IDENTITY NUC
Gapop 10.0 , Gapext 1.0

Searched: 5394803 seqs, 2962729879 residues

Total number of hits satisfying chosen parameters: 10789606

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications NA:*

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and is derived by analysis of the total score distribution.

SUMMARIES

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2	1501	100.0	3531	10	US-09-845-416-10	Sequence 10, Appl1
3	1501	100.0	3858	10	US-09-845-416-9	Sequence 9, Appl1
4	1501	100.0	3999	10	US-09-845-416-6	Sequence 6, Appl1
5	1501	100.0	4182	10	US-09-845-416-2	Sequence 2, Appl1
6	1501	100.0	4498	10	US-09-845-416-30	Sequence 30, Appl1
7	1501	100.0	4825	10	US-09-845-416-29	Sequence 29, Appl1
8	1501	100.0	4848	10	US-09-845-416-35	Sequence 35, Appl1
9	1501	100.0	4966	10	US-09-845-416-28	Sequence 28, Appl1
10	1501	100.0	4990	10	US-09-845-416-34	Sequence 34, Appl1
11	1501	100.0	5060	10	US-09-845-416-36	Sequence 36, Appl1

12	1501	100.0	5149	10	US-09-845-416-27	Sequence 27, Appl1
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19	1501	100.0	13957	9	US-09-782-378A-22	Sequence 22, Appl1
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21	1501	100.0	13957	17	US-10-149-736-1	Sequence 1, Appl1
22	1501	100.0	14069	17	US-10-172-118-434	Sequence 434, App
23	1501	100.0	14069	17	US-10-342-887-434	Sequence 434, App
24	1501	100.0	14082	17	US-10-341-434-108	Sequence 108, App
25	1501	100.0	14082	17	US-10-172-118-981	Sequence 981, App
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27	1480.8	98.7	3510	10	US-09-845-416-12	Sequence 12, Appl1
28	1480.8	98.7	4476	10	US-09-845-416-31	Sequence 31, Appl1
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33	1089.6	72.6	5417	17	US-10-149-736-39	Sequence 39, Appl1
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37	640	42.6	10302	9	US-09-782-378A-23	Sequence 23, Appl1
38	640	42.6	10302	17	US-10-149-736-3	Sequence 3, Appl1
39	631.2	42.1	16531	15	US-10-101-510-667	Sequence 667, App
40	616.8	41.1	5106	17	US-10-220-120-157	Sequence 157, App
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42	387	25.8	387	17	US-10-149-736-32	Sequence 32, Appl1
43	324	21.6	324	17	US-10-149-736-33	Sequence 33, Appl1
44	216	14.4	216	17	US-10-149-736-34	Sequence 34, Appl1
45	114	7.6	114	17	US-10-149-736-45	Sequence 45, Appl1

ALIGNMENTS

RESULT 1

US-09-845-416-4

Sequence 4, Application US/09845416

Publication No. US20030171312A1

GENERAL INFORMATION:

APPLICANT: XIAO, XIAO

TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE THEREOF

FILE REFERENCE: DE1142

CURRENT APPLICATION NUMBER: US/09/845,416

CURRENT FILING DATE: 2001-04-30

PRIOR APPLICATION NUMBER: 60/200,777

PRIOR FILING DATE: 2000-04-28

NUMBER OF SEQ ID NOS: 36

SOFTWARE: PatentIn Ver. 2.1

SEQ ID NO 4

LENGTH: 2169

TYPE: DNA

ORGANISM: Homo sapiens

US-09-845-416-4

Query Match	100.0%;	Score 1501;	DB 10;	Length 2169;
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QY	121	TTGAGGCACTTCCAGCAGTTGAGAAAGCAGAACGATGATGATGAGGCTTCAAGAGGG	180	

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QY 361 AGTGGAAAAATTGAACCTGCACTCCGCTGACTGGCAGAGAAAAATAGATGAGACCCCTG 420
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QY 1501 G 1501
Db 1824 G 1824

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US-09-845-416-10
; Sequence 10, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845,416
; PRIOR FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 10
; LENGTH: 3531
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-10

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RESULT 3
US-09-845-416-9
; Sequence 9, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845,416
; PRIOR FILING DATE: 2001-04-30
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: Patent In Ver. 2.1
; SEQ ID NO 9
; LENGTH: 3858
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-9

Query Match 100.0%; Score 1501; DB 10; Length 3858;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1501; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCAACATTAGGTCCCATTTGGAGCCAGTTCTGACCAAGTGAAGCGTCTGCACCTTTCTC 60
Db 2000 TCAACATTAGGTCCCATTTGGAGCCAGTTCTGACCAAGTGAAGCGTCTGCACCTTTCTC 2059
Qy 61 TGCAGGAACCTTCTGTGTGGCTACAGCTGAAAGATGATGAATTAAGCCGGCAGGCACCTA 120
Db 2060 TGCAGGAACCTTCTGTGTGGCTACAGCTGAAAGATGATGAATTAAGCCGGCAGGCACCTA 2119
Qy 121 TTGAGGCACTTTCAGCAGTTCAAGACAGAACGATGTACATAGGGCCTTCAAGAGGG 180
Db 2120 TTGAGGCACTTTCAGCAGTTCAAGACAGAACGATGTACATAGGGCCTTCAAGAGGG 2179
Qy 181 AATTGAAAATAAAGAACCTGTAATCATGAGTACTCTTGAGACTGTACGAATATTCTGA 240
Db 2180 AATTGAAAATAAAGAACCTGTAATCATGAGTACTCTTGAGACTGTACGAATATTCTGA 2239
Qy 241 CAGAGCAGCTTTGGAGACTAGAGAACTCTACCAAGAGCCCAAGAGAGCTGCTCCTG 300
Db 2240 CAGAGCAGCTTTGGAGACTAGAGAACTCTACCAAGAGCCCAAGAGAGCTGCTCCTG 2299
Qy 301 AGGAGAGCCCAAGATGTCACTCGGCTTCTACGAAAGCAGGCTGAGGAGGTCAATACTG 360
Db 2300 AGGAGAGCCCAAGATGTCACTCGGCTTCTACGAAAGCAGGCTGAGGAGGTCAATACTG 2359
Qy 361 AGTGGAAAAATTGAACCTGCACTCGGCTGAAGCTGGCAGAGAAAAATAGTAGAGACCCTTG 420
Db 2360 AGTGGAAAAATTGAACCTGCACTCGGCTGAAGCTGGCAGAGAAAAATAGTAGAGACCCTTG 2419
Qy 421 AAAGACTCCAGGAACCTTCAAGAGGCCACCGATGAGCTGACCTCAAGCTGCGCCAAGCTG 480
Db 2420 AAAGACTCCAGGAACCTTCAAGAGGCCACCGATGAGCTGACCTCAAGCTGCGCCAAGCTG 2479
Qy 481 AGGTGATCAAGGGATCTGGCAGCCCGTGGCGGATCTCCTCATTTGACTCTCTCCAAGATC 540
Db 2480 AGGTGATCAAGGGATCTGGCAGCCCGTGGCGGATCTCCTCATTTGACTCTCTCCAAGATC 2539
Qy 541 ACCTCGAAGAAAGTCAAGGCACTTCGAGGAGAAATGCGCCTCTGAAGAGAAAGTGAAGCC 600
Db 2540 ACCTCGAAGAAAGTCAAGGCACTTCGAGGAGAAATGCGCCTCTGAAGAGAAAGTGAAGCC 2599
Qy 601 ACGTCAATGACCTTGCTCGCAGCTTACCACTTTGGGCATTGACGCTCTACCGTATTAACC 660

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Db      2600  ACGTCATGACCTTGCTCGCCAGCTTACCACTTTGGGCAATTCAGCTCTCAACCGTATTAACC 2659
QY      661   TCAGCACTCTGGAAGACCTGAACACCAAGATGAAAGCTTCTGCAGGTGGCCGTGAGAGACC 720
Db      2660  TCAGCACTCTGGAAGACCTGAACACCAAGATGAAAGCTTCTGCAGGTGGCCGTGAGAGACC 2719
QY      721   GAGTCAGGCACTGCATGGAAGCCCAAGGGACTTTGGTCCAGCACTCTCAAGCACTTTCTTT 780
Db      2720  GAGTCAGGCACTGCATGGAAGCCCAAGGGACTTTGGTCCAGCACTCTCAAGCACTTTCTTT 2779
QY      781   CCACGTCTGTCCAAGGGTCCCTGGGAGAGAGCCATCTCGCCAAACAAAGTGCCCTACTATA 840
Db      2780  CCACGTCTGTCCAAGGGTCCCTGGGAGAGAGCCATCTCGCCAAACAAAGTGCCCTACTATA 2839
QY      841   TCACACCAAGAGACTCAACAAACCTTGCTGGGAGCCATCCCAAAATGACAGAGCTCTACAGT 900
Db      2840  TCACACCAAGAGACTCAACAAACCTTGCTGGGAGCCATCCCAAAATGACAGAGCTCTACAGT 2899
QY      901   CTTTAGCTGACCTGAATATATGTCAGATTTCTCAGCTTATAGGACTGCCATGAAACTCCGAA 960
Db      2900  CTTTAGCTGACCTGAATATATGTCAGATTTCTCAGCTTATAGGACTGCCATGAAACTCCGAA 2959
QY      961   GACTGCAAGAGGCCCTTTGCTTGGAATCTCTTGAGCCCTGTCAGCTGCATGTGATGCTTGG 1020
Db      2960  GACTGCAAGAGGCCCTTTGCTTGGAATCTCTTGAGCCCTGTCAGCTGCATGTGATGCTTGG 3019
QY      1021  ACCAGCACAACCTCAAGCAAAATGACACGCCCATGATATCCTGCAGATTATTAATTGTT 1080
Db      3020  ACCAGCACAACCTCAAGCAAAATGACACGCCCATGATATCCTGCAGATTATTAATTGTT 3079
QY      1081  TGACCACTATTATGACCCGCTGGAAGCAAGAGACAACAATTTGTCACAGTCCCTCTCT 1140
Db      3080  TGACCACTATTATGACCCGCTGGAAGCAAGAGACAACAATTTGTCACAGTCCCTCTCT 3139
QY      1141  GCGTGATATATGTCGAACCTGGCTGCTGAATGTTATGATACGGGACCAACAGGAGGA 1200
Db      3140  GCGTGATATATGTCGAACCTGGCTGCTGAATGTTATGATACGGGACCAACAGGAGGA 3199
QY      1201  TCCGTGTCCTGCTTTTAAACTGGCATCATTTCCCTGTGTAAAGCAATTTGGAAGACA 1260
Db      3200  TCCGTGTCCTGCTTTTAAACTGGCATCATTTCCCTGTGTAAAGCAATTTGGAAGACA 3259
QY      1261  AGTACAGATACCTTTCAAGCAAGTGCAGATTTCAACAGATTTTGTGACCAAGCGCAGGC 1320
Db      3260  AGTACAGATACCTTTCAAGCAAGTGCAGATTTCAACAGATTTTGTGACCAAGCGCAGGC 3319
QY      1321  TGGGCTCTCTTCGATGATTTCTATCCAAATTTCCAAAGACAGTTGGGTGAAGTTGCATCCT 1380
Db      3320  TGGGCTCTCTTCGATGATTTCTATCCAAATTTCCAAAGACAGTTGGGTGAAGTTGCATCCT 3379
QY      1381  TTGGGGGCACTAACATTGAGCCCAAGTGTCCGGAAGCTGCTTCCAAATTTGCTAATAATAAGC 1440
Db      3380  TTGGGGGCACTAACATTGAGCCCAAGTGTCCGGAAGCTGCTTCCAAATTTGCTAATAATAAGC 3439
QY      1441  CAGAGATCGAAGCGGCCCTCTTCTCTAGACTGAGTGAAGACTGAAACCCAGTCCATGCTGT 1500
Db      3440  CAGAGATCGAAGCGGCCCTCTTCTCTAGACTGAGTGAAGACTGAAACCCAGTCCATGCTGT 3499
QY      1501  G 1501
Db      3500  G 3500

RESULT 4
US-09-845-416-6
; Sequence 6, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; FILE REFERENCE: DE1142
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; CURRENT APPLICATION NUMBER: US/09/845,416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 6
; LENGTH: 3999
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-6

Query Match      100.0%; Score 1501; DB 10; Length 3999;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1501; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1   TCAACATTAGTCCCATTTGGAAAGCCAGTTCTGACCAGTGGAAAGCGTCTGCACCTTTCTC 60
Db      2141  TCAACATTAGTCCCATTTGGAAAGCCAGTTCTGACCAGTGGAAAGCGTCTGCACCTTTCTC 2200
QY      61   TGCAGAACTTCTGTGTGGCTTACAGCTGAAAGATGATGAATTAAAGCCGGCAGGCACTTA 120
Db      2201  TGCAGAACTTCTGTGTGGCTTACAGCTGAAAGATGATGAATTAAAGCCGGCAGGCACTTA 2260
QY      121  TTGGAGGCACTTTCAGCAGTTCAGAAAGCAGACGATGATCATATAGGCGCTTCAAGAGGG 180
Db      2261  TTGGAGGCACTTTCAGCAGTTCAGAAAGCAGACGATGATCATATAGGCGCTTCAAGAGGG 2320
QY      181  AATTGAAACTAAAGAACTGTATCATGATGATCTCTTGAGACTGTACGAATATTCTGA 240
Db      2321  AATTGAAACTAAAGAACTGTATCATGATGATCTCTTGAGACTGTACGAATATTCTGA 2380
QY      241  CAGAGCAACCTTTGGAAGAGACTAGAGAACTCTACAGAGCCCAAGAGCTGCCTCTG 300
Db      2381  CAGAGCAACCTTTGGAAGAGACTAGAGAACTCTACAGAGCCCAAGAGCTGCCTCTG 2440
QY      301  AGGAGAGAGCCCAAGATGTCACTCGGCTTCTACGAAAGCAGGCTGAGAGTCAATACTG 360
Db      2441  AGGAGAGAGCCCAAGATGTCACTCGGCTTCTACGAAAGCAGGCTGAGAGTCAATACTG 2500
QY      361  AGTGGAAAAATTGAACCTGCACCTCCGCTGACCTGGCAGAGAAAAATAGATGAGACCCTTG 420
Db      2501  AGTGGAAAAATTGAACCTGCACCTCCGCTGACCTGGCAGAGAAAAATAGATGAGACCCTTG 2560
QY      421  AAAGACTCCAGGAATTCAAGAGGCCAGGATGAGCTGACCTCAAGCTGCCCAAGCTG 480
Db      2561  AAAGACTCCAGGAATTCAAGAGGCCAGGATGAGCTGACCTCAAGCTGCCCAAGCTG 2620
QY      481  AGGTATCAAGGATCCTGGCAGCCCGTGGCGATCTCCTCATTTGACTCTCTCCAAGATC 540
Db      2621  AGGTATCAAGGATCCTGGCAGCCCGTGGCGATCTCCTCATTTGACTCTCTCCAAGATC 2680
QY      541  ACCTGAGAAAGTCAAGGCACTTGAAGAGAAATTTGCGCTCTGAAAGAAAGAAAGTGAAGC 600
Db      2681  ACCTGAGAAAGTCAAGGCACTTGAAGAGAAATTTGCGCTCTGAAAGAAAGAAAGTGAAGC 2740
QY      601  ACGTCAATGACCTTGCTCGCCAGCTTACCACCTTTGGGCAATTCAGCTCTCAACCGTATTAAC 660
Db      2741  ACGTCAATGACCTTGCTCGCCAGCTTACCACCTTTGGGCAATTCAGCTCTCAACCGTATTAAC 2800
QY      661  TCAGCACTCTGGAAGACCTGAACACCAAGATGGAAGCTTTGCAAGGTGGCCGTGAGAGACC 720
Db      2801  TCAGCACTCTGGAAGACCTGAACACCAAGATGGAAGCTTTGCAAGGTGGCCGTGAGAGACC 2860
QY      721  GAGTCAGGCACTGCATGAAGCCCAAGGGAATTTGGTCCAGCATCTCAGCACTTTCTTT 780
Db      2861  GAGTCAGGCACTGCATGAAGCCCAAGGGAATTTGGTCCAGCATCTCAGCACTTTCTTT 2920
QY      781  CCACGTCTGTCCAGGGTCCCTGGGAGAGAGAGCCATCTGCGCAAAACAAAGTGCCCTACTATA 840
Db      2921  CCACGTCTGTCCAGGGTCCCTGGGAGAGAGAGCCATCTGCGCAAAACAAAGTGCCCTACTATA 2980
QY      841  TCAACCAAGAGACTCAACAACTTGCTGGGAGCAATCCCAAAATGACAGAGCTCTACAGAT 900
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Db 2981 TCACACGAGACTCAACAACTGCTGGACCATCCCAATGACAGAGCTTACCAGT 3040
QY 901 CTTAGCTGACCTGAATATATGTCAGATTCTCAGCTTATAGGACTGCCATGAATCCGAA 960
Db 3041 CTTAGCTGACCTGAATATATGTCAGATTCTCAGCTTATAGGACTGCCATGAATCCGAA 3100
QY 961 GACTGCAGAGGCCCTTTGCTTGATCTCTTGAGCCTGTCAAGTGTGATGTCCTTG 1020
Db 3101 GACTGCAGAGGCCCTTTGCTTGATCTCTTGAGCCTGTCAAGTGTGATGTCCTTG 3160
QY 1021 ACCAGCAAACTCAAGCAAAATGACAGGCCCATGATATCTGAGATTATTAATTGTT 1080
Db 3161 ACCAGCAAACTCAAGCAAAATGACAGGCCCATGATATCTGAGATTATTAATTGTT 3220
QY 1081 TGACCACTATTATGACCGCCTGGAGCAAGAGCAACAATTGTCACGTCCTCTCT 1140
Db 3221 TGACCACTATTATGACCGCCTGGAGCAAGAGCAACAATTGTCACGTCCTCTCT 3280
QY 1141 GCGTGATATGTGTCTGAACTGGCTGCTGAATGTTATGATACGGGACGAACAGGAGGA 1200
Db 3281 GCGTGATATGTGTCTGAACTGGCTGCTGAATGTTATGATACGGGACGAACAGGAGGA 3340
QY 1201 TCCGTGCTCTGCTTTTAAACTGGCATCATTTCCCTGTGTAAAGCACATTTGGAAGACA 1260
Db 3341 TCCGTGCTCTGCTTTTAAACTGGCATCATTTCCCTGTGTAAAGCACATTTGGAAGACA 3400
QY 1261 AGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCACAGATTGTTGACAGCGCAGGC 1320
Db 3401 AGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCACAGATTGTTGACAGCGCAGGC 3460
QY 1321 TGGGCTCTCTCTGATGATTTCTATCCAAATTCGAAGACAGTTGGGTGAAGTTGCATCCT 1380
Db 3461 TGGGCTCTCTCTGATGATTTCTATCCAAATTCGAAGACAGTTGGGTGAAGTTGCATCCT 3520
QY 1381 TTGGGGGAGTAACATTGAGCCAAAGTGTCCGAGCTGCTTCCAAATTTGTAATAAAGC 1440
Db 3521 TTGGGGGAGTAACATTGAGCCAAAGTGTCCGAGCTGCTTCCAAATTTGTAATAAAGC 3580
QY 1441 CAGAGATCGAAGCGGCCCTTCTCTAGACTGATGAGACTGGAACCCCACTCCATGTGT 1500
Db 3581 CAGAGATCGAAGCGGCCCTTCTCTAGACTGATGAGACTGGAACCCCACTCCATGTGT 3640
QY 1501 G 1501
Db 3641 G 3641

RESULT 5
US-09-845-416-2
; Sequence 2, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845,416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 4182
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-2

Query Match 100.0%; Score 1501; DB 10; Length 4182;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1501; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCACATTAGTCCCATTTGGAGCCAGTTCTGACCAGTGAAGCGTCTGCACCTTCTC 60
Db 2324 TCACATTAGTCCCATTTGGAGCCAGTTCTGACCAGTGAAGCGTCTGCACCTTCTC 2383
QY 61 TGCAGAACTTCTGTGTGCTACAGCTGAAAGATGATGAATTAAGCCGACGACCTTA 120
Db 2384 TGCAGAACTTCTGTGTGCTACAGCTGAAAGATGATGAATTAAGCCGACGACCTTA 2443
QY 121 TTGAGGCGACTTTCAGCAGTTTCAAGCAGAAAGATGTATAGGAGCTTCAAGAGGG 180
Db 2444 TTGAGGCGACTTTCAGCAGTTTCAAGCAGAAAGATGTATCATAGGAGCTTCAAGAGGG 2503
QY 181 AATTGAAAATTAAAGAACTGTATCATGAGTACTCTTGAGACTGTACGAATATTCTGA 240
Db 2504 AATTGAAAATTAAAGAACTGTATCATGAGTACTCTTGAGACTGTACGAATATTCTGA 2563
QY 241 CAGAGCAGCTTTGGAAAGACTAGAGAACTCTACAGAGAGGCCAGAGAGCTGCTCCTG 300
Db 2564 CAGAGCAGCTTTGGAAAGACTAGAGAACTCTACAGAGAGGCCAGAGAGCTGCTCCTG 2623
QY 301 AGGAGAGGCCAGAAATGTCACTCGGCTTCTACGAAAGCAGGCTGAGAGGTCAATACTG 360
Db 2624 AGGAGAGGCCAGAAATGTCACTCGGCTTCTACGAAAGCAGGCTGAGAGGTCAATACTG 2683
QY 361 AGTGGAAAAATTGAACCTGCACTCCGCTGACTGGCAGAGAAAAATAGATGAGACCCTTG 420
Db 2684 AGTGGAAAAATTGAACCTGCACTCCGCTGACTGGCAGAGAAAAATAGATGAGACCCTTG 2743
QY 421 AAAGACTCCAGAACTTCAAGAGGCCACAGATGAGCTGAGCCTCAAGCTGCCCAAGCTG 480
Db 2744 AAAGACTCCAGAACTTCAAGAGGCCACAGATGAGCTGAGCCTCAAGCTGCCCAAGCTG 2803
QY 481 AGGTGATCAAGGATCCTGGCAGGCCGTTGGGCGATCTCTCATTTGACTCTCTCCAAGATC 540
Db 2804 AGGTGATCAAGGATCCTGGCAGGCCGTTGGGCGATCTCTCATTTGACTCTCTCCAAGATC 2863
QY 541 ACCTCGAGAAAGTCAAGGCACTTCAGAGAGAAATGCGCCTCTGAAAGAAAGTGAAGC 600
Db 2864 ACCTCGAGAAAGTCAAGGCACTTCAGAGAGAAATGCGCCTCTGAAAGAAAGTGAAGC 2923
QY 601 ACCTCAATGACTTGTCTCGCAGCTTACACTTTGGGCAATTCAGCTCTCACCGTATAAC 660
Db 2924 ACCTCAATGACTTGTCTCGCAGCTTACACTTTGGGCAATTCAGCTCTCACCGTATAAC 2983
QY 661 TCAGCACTTGAAGAACTGAAACACAGATGGAAGCTTCTGCAGGTGGCCGTCGAGGACC 720
Db 2984 TCAGCACTTGAAGAACTGAAACACAGATGGAAGCTTCTGCAGGTGGCCGTCGAGGACC 3043
QY 721 GAGTCAGGAGCTGCATGAAGCCCAAGGGACTTTGGGCAATTCAGCTCTCACACTTCTTT 780
Db 3044 GAGTCAGGAGCTGCATGAAGCCCAAGGGACTTTGGGCAATTCAGCTCTCACACTTCTTT 3103
QY 781 CCACGTCTGTCCAGGGTCCCTGGGAGAGAGCCATCTCGCCAAACAAAGTGCCCTACTATA 840
Db 3104 CCACGTCTGTCCAGGGTCCCTGGGAGAGAGCCATCTCGCCAAACAAAGTGCCCTACTATA 3163
QY 841 TCAACCAAGAGACTCAAAACAATTGCTGGGACCATCCCAAAATGACAGACTCTACCACT 900
Db 3164 TCAACCAAGAGACTCAAAACAATTGCTGGGACCATCCCAAAATGACAGACTCTACCACT 3223
QY 901 CTTAGCTGACCTGAATATATGTCAGATTCTCAGCTTATAGGACTGCCATGAAACTCCGAA 960
Db 3224 CTTAGCTGACCTGAATATATGTCAGATTCTCAGCTTATAGGACTGCCATGAAACTCCGAA 3283
QY 961 GACTGCAGAGGCCCTTTGCTTGATCTCTTGAGCCTGTCAAGTGTGATGTCCTTG 1020
Db 3284 GACTGCAGAGGCCCTTTGCTTGATCTCTTGAGCCTGTCAAGTGTGATGTCCTTG 3343
QY 1021 ACCAGCAAACTCAAGCAAAATGACAGGCCCATGATATCTGAGATTATTAATTGTT 1080
Db 3344 ACCAGCAAACTCAAGCAAAATGACAGGCCCATGATATCTGAGATTATTAATTGTT 3403
QY 1081 TGACCACTATTATGACCGCCTGGAGCAAGAGCAACAATTTGTCACGTCCTCTCT 1140

Db 3404 TGACCACTATTATGACCGCTGAGACAGACACAACATTTGGTCAACGTCCTCTCT 3463
QY 1141 GCGTGATATGTGTCTGAAGTGGCTGCTGAATGTTATGATACGGGACGAACAGGAGGA 1200
Db 3464 GCGTGATATGTGTCTGAAGTGGCTGCTGAATGTTATGATACGGGACGAACAGGAGGA 3523
QY 1201 TCCGTGCTGTCTTTTAAACTGGGATCATTTCCCTGTGTAAAGCACATTTGGAAGACA 1260
Db 3524 TCCGTGCTGTCTTTTAAACTGGGATCATTTCCCTGTGTAAAGCACATTTGGAAGACA 3583
QY 1261 AGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCAACAGAGATTTGTGACCAAGCGAGGC 1320
Db 3584 AGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCAACAGAGATTTGTGACCAAGCGAGGC 3643
QY 1321 TGGGCTCTCTTCTGATGATTTATCCAAATTCGAAGAGATTTGGTGAAGTGCATCCT 1380
Db 3644 TGGGCTCTCTTCTGATGATTTATCCAAATTCGAAGAGATTTGGTGAAGTGCATCCT 3703
QY 1381 TTGGGGGCAATACTTGAAGCAAGTGTCCGAGCTGCTTCCAATTTGCTAATAATAAGC 1440
Db 3704 TTGGGGGCAATACTTGAAGCAAGTGTCCGAGCTGCTTCCAATTTGCTAATAATAAGC 3763
QY 1441 CAGAGATCGAAGCGGCTCTTCTTAGACTGATGAGACTGGAACCCCAATGCTGTGT 1500
Db 3764 CAGAGATCGAAGCGGCTCTTCTTAGACTGATGAGACTGGAACCCCAATGCTGTGT 3823
QY 1501 G 1501
Db 3824 G 3824

RESULT 6
US-09-845-416-30
; Sequence 30, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845,416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 30
; LENGTH: 4498
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-30

Query Match 100.0%; Score 1501; DB 10; Length 4498;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1501; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 TCAACATTAGTCCCATTTGGAAGCAGTTCTGACCAAGTGAAGCGTCTGCACCTTTCTC 60
Db 2430 TCAACATTAGTCCCATTTGGAAGCAGTTCTGACCAAGTGAAGCGTCTGCACCTTTCTC 2489
QY 61 TGCAGGAATTCTGTGTGTGCTACAGCTGAAGAATGAATTAAGCCGGCAGGACCTTA 120
Db 2490 TGCAGGAATTCTGTGTGTGCTACAGCTGAAGAATGAATTAAGCCGGCAGGACCTTA 2549
QY 121 TTGAGGCGAATTCTCCAGCAGTTCAAGACGAACGATGTACATAGGGCTTCAAGAGG 180
Db 2550 TTGAGGCGAATTCTCCAGCAGTTCAAGACGAACGATGTACATAGGGCTTCAAGAGG 2609
QY 181 AATTGAAAACTAAGAACCTGTATCATGAGTACTCTTGAGACTGTAAGAAATTTCTGA 240
Db 2610 AATTGAAAACTAAGAACCTGTATCATGAGTACTCTTGAGACTGTAAGAAATTTCTGA 2669

QY 241 CAGACAGCCTTTGGAAAGACTAGAGAACTCTACAGAGGCCAGAGAGCTGCTCTG 300
Db 2670 CAGACAGCCTTTGGAAAGACTAGAGAACTCTACAGAGGCCAGAGAGCTGCTCTG 2729
QY 301 AGGAGAGAGCCAGAAATGTCACTCGGCTTCTACGAAAGCAGGCTGAGAGGTCATATCTG 360
Db 2730 AGGAGAGAGCCAGAAATGTCACTCGGCTTCTACGAAAGCAGGCTGAGAGGTCATATCTG 2789
QY 361 AGTGGAAAAATTGAACCTGCACTCCGCTGACTGGCAGAGAAAAATAGATGAGACCCTTG 420
Db 2790 AGTGGAAAAATTGAACCTGCACTCCGCTGACTGGCAGAGAAAAATAGATGAGACCCTTG 2849
QY 421 AAAGACTCCAGGAATTCAAGAGGCCACGATGAGCTGACCTCAAGCTGCCCAAGCTG 480
Db 2850 AAAGACTCCAGGAATTCAAGAGGCCACGATGAGCTGACCTCAAGCTGCCCAAGCTG 2909
QY 481 AGTGATCAAGGATCCTGGCAGCCCGTGGCGATCTCTCATTTGACTCTCTCCAAGATC 540
Db 2910 AGTGATCAAGGATCCTGGCAGCCCGTGGCGATCTCTCATTTGACTCTCTCCAAGATC 2969
QY 541 ACCTCGAAGAAAGTCAAGGCACTTCAAGAGAAATTCGCTCTGAAAGAAAGAGAGAGCC 600
Db 2970 ACCTCGAAGAAAGTCAAGGCACTTCAAGAGAAATTCGCTCTGAAAGAAAGAGAGAGCC 3029
QY 601 ACGTCAATGACCTTGTCTCGCAGCTTACCACTTTGGGCAATCAGCTCTCACCGTATTAAC 660
Db 3030 ACGTCAATGACCTTGTCTCGCAGCTTACCACTTTGGGCAATCAGCTCTCACCGTATTAAC 3089
QY 661 TCAGCACTCTGGAAGACCTGGAACAACAGATGGAAGCTTCTGCAGGTGGCCGTCAGAGACC 720
Db 3090 TCAGCACTCTGGAAGACCTGGAACAACAGATGGAAGCTTCTGCAGGTGGCCGTCAGAGACC 3149
QY 721 GAGTCAGGCACTGCATGAAGCCCAAGGACTTTGGTCCAGCATCTCAGCACTTCTTT 780
Db 3150 GAGTCAGGCACTGCATGAAGCCCAAGGACTTTGGTCCAGCATCTCAGCACTTCTTT 3209
QY 781 CCAAGTCTGTCCAGGCTCCCTGGAGAGAGCCATCTGCCAAACAAAGTCCCTACTATA 840
Db 3210 CCAAGTCTGTCCAGGCTCCCTGGAGAGAGCCATCTGCCAAACAAAGTCCCTACTATA 3269
QY 841 TCAACCAAGAGACTCAAACTTGTCTGGACCATCCCAAAATGACAGCTCTTACCAGT 900
Db 3270 TCAACCAAGAGACTCAAACTTGTCTGGACCATCCCAAAATGACAGCTCTTACCAGT 3329
QY 901 CTTTACGTGACCTGAATAATGTCAAGTTCTCAGCTTATAGACTGCCATGAACTCCGAA 960
Db 3330 CTTTACGTGACCTGAATAATGTCAAGTTCTCAGCTTATAGACTGCCATGAACTCCGAA 3389
QY 961 GACTGCAAGAGGCCCTTGTGTGATCTCTTGAAGCTGTCAAGCTGATGTATGCTTGG 1020
Db 3390 GACTGCAAGAGGCCCTTGTGTGATCTCTTGAAGCTGTCAAGCTGATGTATGCTTGG 3449
QY 1021 ACCAGCACAACCTCAAGCAAAATGACCAAGCCCATGATATCTTGCAAGATTATTAATTGTT 1080
Db 3450 ACCAGCACAACCTCAAGCAAAATGACCAAGCCCATGATATCTTGCAAGATTATTAATTGTT 3509
QY 1081 TGACCACTATTATGACCGCCTGGAGAGAGACAAACAATTGGTCAACGTCCCTCTCT 1140
Db 3510 TGACCACTATTATGACCGCCTGGAGAGAGACAAACAATTGGTCAACGTCCCTCTCT 3569
QY 1141 GCGTGATATGTGTCTGAAGTGGCTGTGAATGTTATGATACGGGACGAACAGGAGGA 1200
Db 3570 GCGTGATATGTGTCTGAAGTGGCTGTGAATGTTATGATACGGGACGAACAGGAGGA 3629
QY 1201 TCCGTGCTGTCTTTTAAACTGGGATCATTTCCCTGTGTAAAGCACATTTGGAAGACA 1260
Db 3630 TCCGTGCTGTCTTTTAAACTGGGATCATTTCCCTGTGTAAAGCACATTTGGAAGACA 3689
QY 1261 AGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCAACAGAGATTTGTGACCAAGCGAGGC 1320
Db 3690 AGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCAACAGAGATTTGTGACCAAGCGAGGC 3749
QY 1321 TGGGCTCTCTTCTGATGATTTATCCAAATTCGAAGACAGTTGGTGAAGTGCATCCT 1380

Db 3750 TGGGCTCCTTTCATGATGATTCATCCAAATTCAGACAGTTGGTGAAGTTGCATCCT 3809
Qy 1381 TTGGGGGCGAGTAACATTTAGGCCAAGTGTCCGGAGCTGCTTCCAATTTGCTAATAAAGC 1440
Db 3810 TTGGGGGCGAGTAACATTTAGGCCAAGTGTCCGGAGCTGCTTCCAATTTGCTAATAAAGC 3869
Qy 1441 CAGAGATCGAAGCGGCCCTTCTCTAGACTGTGATGAGACTGGAACCCCAAGTCCATGTGT 1500
Db 3870 CAGAGATCGAAGCGGCCCTTCTCTAGACTGTGATGAGACTGGAACCCCAAGTCCATGTGT 3929
Qy 1501 G 1501
Db 3930 G 3930

RESULT 7
US-09-845-416-29
; Sequence 29, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845,416
; PRIOR FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 29
; LENGTH: 4825
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-29

Query Match 100.0%; Score 1501; DB 10; Length 4825;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1501; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCAACATTAGGTCCCATTTTGAAGCCAGTTCTGACCAAGTGAAGCGCTGCACTTTCTC 60
Db 2757 TCAACATTAGGTCCCATTTTGAAGCCAGTTCTGACCAAGTGAAGCGCTGCACTTTCTC 2816
Qy 61 TGCAGAACTTCTGTGTGCTACAGCTGAAGATGATGAATTAAGCCGCGAGCACCTA 120
Db 2817 TGCAGAACTTCTGTGTGCTACAGCTGAAGATGATGAATTAAGCCGCGAGCACCTA 2876
Qy 121 TTGAGGCGACTTTCAGCAGTTCAAGAGCAAGATGTACATAGGCGCTTCAAGAGG 180
Db 2877 TTGAGGCGACTTTCAGCAGTTCAAGAGCAAGATGTACATAGGCGCTTCAAGAGG 2936
Qy 181 AATTGAAAATAAAGAACTGTATCATGTAATCTTTGAGACTGTACGAATATTTCTGA 240
Db 2937 AATTGAAAATAAAGAACTGTATCATGTAATCTTTGAGACTGTACGAATATTTCTGA 2996
Qy 241 CAGAGCAGCCTTTGGAAGACTAGAGAACTCTACCAAGAGCCAGAGAGCTGCCTCTG 300
Db 2997 CAGAGCAGCCTTTGGAAGACTAGAGAACTCTACCAAGAGCCAGAGAGCTGCCTCTG 3056
Qy 301 AGGAGAGAGCCAGAAATGTCACTCGCTTCTAAGAAAGCAGGCTGAGAGGTCAATACTG 360
Db 3057 AGGAGAGAGCCAGAAATGTCACTCGCTTCTAAGAAAGCAGGCTGAGAGGTCAATACTG 3116
Qy 361 AGTGGAATAATTGAACCTGCACTCGCTGACTGAGAGAAAAATAGATGAGACCCTTG 420
Db 3117 AGTGGAATAATTGAACCTGCACTCGCTGACTGAGAGAAAAATAGATGAGACCCTTG 3176
Qy 421 AAAGACTCCAGAACTTCAAGAGGCCACGATGAGCTGAGCTCAAGCTGCCCAAGCTG 480
Db 3177 AAAGACTCCAGAACTTCAAGAGGCCACGATGAGCTGAGCTCAAGCTGCCCAAGCTG 3236

Qy 481 AGTGATCAAGGATCCTGGCAGCCCGTGGCGATCTCTCATTTGACTCTCTCCAAGATC 540
Db 3237 AGTGATCAAGGATCCTGGCAGCCCGTGGCGATCTCTCATTTGACTCTCTCCAAGATC 3296
Qy 541 ACCTGAGAAAGTCAAGGCACTTCGAGGAAATTCGCGCTCTGAAGAGAAAGTGAAGC 600
Db 3297 ACCTGAGAAAGTCAAGGCACTTCGAGGAAATTCGCGCTCTGAAGAGAAAGTGAAGC 3356
Qy 601 ACGTCAATGACCTTGTCTCGCCAGCTTACCACTTTGGCATTACGCTCAACCGTATAAC 660
Db 3357 ACGTCAATGACCTTGTCTCGCCAGCTTACCACTTTGGCATTACGCTCAACCGTATAAC 3416
Qy 661 TCAGCACTTGGAAGAACCTGAACACAGATGAAGCTTCTGACGTTGGCGCTCGAGACC 720
Db 3417 TCAGCACTTGGAAGAACCTGAACACAGATGAAGCTTCTGACGTTGGCGCTCGAGACC 3476
Qy 721 GAGTCAGGCAAGCTGATGAAGCCCAAGGACTTTGGTCCAGCATCTCAGCACTTTCTT 780
Db 3477 GAGTCAGGCAAGCTGATGAAGCCCAAGGACTTTGGTCCAGCATCTCAGCACTTTCTT 3536
Qy 781 CCACGCTGTCCAGGGTCCCTGGGAGAGAGCCATCTCGCCAAACAAAGTGCCCTACTATA 840
Db 3537 CCACGCTGTCCAGGGTCCCTGGGAGAGAGCCATCTCGCCAAACAAAGTGCCCTACTATA 3596
Qy 841 TCAACACGAGACTCAAAACAACCTGCTGGACCATCCCAAAATGACAGAGCTTACCAGT 900
Db 3597 TCAACACGAGACTCAAAACAACCTGCTGGACCATCCCAAAATGACAGAGCTTACCAGT 3656
Qy 901 CTTAGCTGACCTGAATATGTCAATCTCAGCTTATAGACTGCGCATGAAGCTCCGAA 960
Db 3657 CTTAGCTGACCTGAATATGTCAATCTCAGCTTATAGACTGCGCATGAAGCTCCGAA 3716
Qy 961 GACTGCAAGAGCCCTTTGCTTGGATCTTTGAGCCTGTCAAGCTGATGATGCTTGG 1020
Db 3717 GACTGCAAGAGCCCTTTGCTTGGATCTTTGAGCCTGTCAAGCTGATGATGCTTGG 3776
Qy 1021 ACCAGCACAACTCAAGCAAAATGACCAAGCCCATGATATCTGCAATTAATTGTT 1080
Db 3777 ACCAGCACAACTCAAGCAAAATGACCAAGCCCATGATATCTGCAATTAATTGTT 3836
Qy 1081 TGACCACTATTATGACCGCTGAGAGACACAACAATTTGTCACGTCCTCTCT 1140
Db 3837 TGACCACTATTATGACCGCTGAGAGACACAACAATTTGTCACGTCCTCTCT 3896
Qy 1141 GCGTGATATGTCTGAACCTGCTGATGATTTATGATACGGGACGAACAGGAGGA 1200
Db 3897 GCGTGATATGTCTGAACCTGCTGATGATTTATGATACGGGACGAACAGGAGGA 3956
Qy 1201 TCCGTGTCCTCTTTTAAACTGGCATTTTCCCTGTGTAAAGCACATTTGGAAGACA 1260
Db 3957 TCCGTGTCCTCTTTTAAACTGGCATTTTCCCTGTGTAAAGCACATTTGGAAGACA 4016
Qy 1261 AGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCAACAGAGATTTTGACCAAGCGAGGC 1320
Db 4017 AGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCAACAGAGATTTTGACCAAGCGAGGC 4076
Qy 1321 TGGGCTCCTTCTGATGATTTCTATCCAATTCGAAGACAGTGGTGAAGTTCATCCT 1380
Db 4077 TGGGCTCCTTCTGATGATTTCTATCCAATTCGAAGACAGTGGTGAAGTTCATCCT 4136
Qy 1381 TTGGGGGCGAGTAACATTTGAGCCAAAGTGTCCGAGCTGCTTCCAATTTGCTAATAAAGC 1440
Db 4137 TTGGGGGCGAGTAACATTTGAGCCAAAGTGTCCGAGCTGCTTCCAATTTGCTAATAAAGC 4196
Qy 1441 CAGAGATCGAAGCGGCCCTTCTCTAGACTGATGAGACTGGAACCCCAAGTCCATGTGT 1500
Db 4197 CAGAGATCGAAGCGGCCCTTCTCTAGACTGATGAGACTGGAACCCCAAGTCCATGTGT 4256
Qy 1501 G 1501
Db 4257 G 4257

RESULT 8
US-09-845-416-35
; Sequence 35, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845,416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 35
; LENGTH: 4848
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-35

Query Match 100.0%; Score 1501; DB 10; Length 4848;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1501; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCACATTAGTCCCATTTGGAAGCCAGTTCTGACCAAGTGAAGCGCTCTGCACCTTCTC 60
DB 2780 TCACATTAGTCCCATTTGGAAGCCAGTTCTGACCAAGTGAAGCGCTCTGCACCTTCTC 2839
QY 61 TGCAGGAAGCTTCTGTGTGCTACAGCTGAAGATGATGAATTAAAGCCGCGCAGGCACTTA 120
DB 2840 TGCAGGAAGCTTCTGTGTGCTACAGCTGAAGATGATGAATTAAAGCCGCGCAGGCACTTA 2899
QY 121 TTGAGGCGAGCTTTCAGCAGTTCAAGACAGAACGATGTACATAGGGCTTCAAGAGGG 180
DB 2900 TTGAGGCGAGCTTTCAGCAGTTCAAGACAGAACGATGTACATAGGGCTTCAAGAGGG 2959
QY 181 AATTGAAAATAAAGAACCTGTATCATGAGTACTCTTGAGACTGTACGAATATTTCTGA 240
DB 2960 AATTGAAAATAAAGAACCTGTATCATGAGTACTCTTGAGACTGTACGAATATTTCTGA 3019
QY 241 CAGAGCAGCTTTGGAAGGACTAGAGAACTCTACAGAGAGCCAGAGAGCTGCCTCTG 300
DB 3020 CAGAGCAGCTTTGGAAGGACTAGAGAACTCTACAGAGAGCCAGAGAGCTGCCTCTG 3079
QY 301 AGAGAGAGCCCAAGATGTCACTCGGCTTCTACGAAGCAGGCTGAGAGGTCAATACTG 360
DB 3080 AGAGAGAGCCCAAGATGTCACTCGGCTTCTACGAAGCAGGCTGAGAGGTCAATACTG 3139
QY 361 AGTGGAAAAATTGAACCTGCATCCGCTGACTGGCAGAGAAAAATAGATGAGACCTTGG 420
DB 3140 AGTGGAAAAATTGAACCTGCATCCGCTGACTGGCAGAGAAAAATAGATGAGACCTTGG 3199
QY 421 AAAGACTCCAAGAACTTCAAGAGGCGCAGGATGAGCTGACCTCAAGCTGCGCAAGCTG 480
DB 3200 AAAGACTCCAAGAACTTCAAGAGGCGCAGGATGAGCTGACCTCAAGCTGCGCAAGCTG 3259
QY 481 AGGTGATCAAGGGATCCTGGCAGCCCGTGGCGATCTCTCATGTGACTCTCTCCAAGATC 540
DB 3260 AGGTGATCAAGGGATCCTGGCAGCCCGTGGCGATCTCTCATGTGACTCTCTCCAAGATC 3319
QY 541 ACCTCGAGAAAGTCAAGGCACTTCAAGAGAAATTCGCTCTGAAGAAGAACGTGAGCC 600
DB 3320 ACCTCGAGAAAGTCAAGGCACTTCAAGAGAAATTCGCTCTGAAGAAGAACGTGAGCC 3379
QY 601 ACGTCAATGACCTTGTGCGCAGCTTACCACTTTGGGCAATTGACTCTCAACGATATACC 660
DB 3380 ACGTCAATGACCTTGTGCGCAGCTTACCACTTTGGGCAATTGACTCTCAACGATATACC 3439
QY 661 TCAGCACTCTGGAAGACCTGAACACCAAGATGGAAGCTTTCGACAGGTGGCCGTGAGGACC 720
DB 3440 TCAGCACTCTGGAAGACCTGAACACCAAGATGGAAGCTTTCGACAGGTGGCCGTGAGGACC 3499

QY 721 GAGTCAGCAGCTGCATGAAGCCACAGGAGCTTTGTCCAGCATCTCAGCACTTCTCTT 780
DB 3500 GAGTCAGCAGCTGCATGAAGCCACAGGAGCTTTGTCCAGCATCTCAGCACTTCTCTT 3559
QY 781 CCACGTCTGTCCAGGGTCCCTGGGAGAGAGCCATCTCGCCAAACAAGTGCCCTACTATA 840
DB 3560 CCACGTCTGTCCAGGGTCCCTGGGAGAGAGCCATCTCGCCAAACAAGTGCCCTACTATA 3619
QY 841 TCAACCAAGAGACTCAAAACAATTGCTGGGACCATCCCAAAATGACAGAGCTTACCAGT 900
DB 3620 TCAACCAAGAGACTCAAAACAATTGCTGGGACCATCCCAAAATGACAGAGCTTACCAGT 3679
QY 901 CTTTACCTGACCTGAATATGTGAGATTCTCAGCTTATAGACTGCCATGAATCCGAA 960
DB 3680 CTTTACCTGACCTGAATATGTGAGATTCTCAGCTTATAGACTGCCATGAATCCGAA 3739
QY 961 GACTGAGAAAGGCCCTTGTGCTTGATCTCTTGAGCCCTGTCAGCTGCATGTGATGCTTGG 1020
DB 3740 GACTGAGAAAGGCCCTTGTGCTTGATCTCTTGAGCCCTGTCAGCTGCATGTGATGCTTGG 3799
QY 1021 ACCAGCAAACTCAAGCAAAATGACCAAGCCCATGATATCTCGAGATTATTAATGTT 1080
DB 3800 ACCAGCAAACTCAAGCAAAATGACCAAGCCCATGATATCTCGAGATTATTAATGTT 3859
QY 1081 TGACCACTATTATGACCGCTGAGCAAGAGACCAACAATTTGGTCAACGTCCTCTCT 1140
DB 3860 TGACCACTATTATGACCGCTGAGCAAGAGACCAACAATTTGGTCAACGTCCTCTCT 3919
QY 1141 GCGTGATATGTGTCTGAACTGCTGCTGATGTTATGATAACGGGACGAACAGGAGGA 1200
DB 3920 GCGTGATATGTGTCTGAACTGCTGCTGATGTTATGATAACGGGACGAACAGGAGGA 3979
QY 1201 TCCGTCTCTGTCTTTTAAATGCGCATCATTTCCCTGTGTAAAGCACATTTGGAAGACA 1260
DB 3980 TCCGTCTCTGTCTTTTAAATGCGCATCATTTCCCTGTGTAAAGCACATTTGGAAGACA 4039
QY 1261 AGTACAGATACCTTTTCAAGCAAGTGCGCAAGTTCAACAGGATTTGTGACAGCGAGGC 1320
DB 4040 AGTACAGATACCTTTTCAAGCAAGTGCGCAAGTTCAACAGGATTTGTGACAGCGAGGC 4099
QY 1321 TGGGCTCTCTTCTGATGATTTCTATCCAAATTCAGAGACAGTTGGGTGAAGTGCATCCT 1380
DB 4100 TGGGCTCTCTTCTGATGATTTCTATCCAAATTCAGAGACAGTTGGGTGAAGTGCATCCT 4159
QY 1381 TTGGGGCAGTAAACATTAAGCCAAAGTGTCCGAGCTGCTTCCAATTTGCTAATAAAGC 1440
DB 4160 TTGGGGCAGTAAACATTAAGCCAAAGTGTCCGAGCTGCTTCCAATTTGCTAATAAAGC 4219
QY 1441 CAGAGATCGAAGCGGCTCTTCTAGACTGATGAGACTGGAACCCAGTCCATGCTGT 1500
DB 4220 CAGAGATCGAAGCGGCTCTTCTAGACTGATGAGACTGGAACCCAGTCCATGCTGT 4279
QY 1501 G 1501
DB 4280 G 4280

RESULT 9
US-09-845-416-28
; Sequence 28, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845,416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 28

; LENGTH: 4966
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-28

Query Match 100.0%; Score 1501; DB 10; Length 4966;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1501; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 TCAACATTAGGTCCTTGGAGGCCAGTTCTGACCAGTGGAAGCGCTGCACTTCTC 60
DB |||||||
DB 2898 TCAACATTAGGTCCTTGGAGGCCAGTTCTGACCAGTGGAAGCGCTGCACTTCTC 2957
QY 61 TGCAGAACTTCTGTGTGCTACAGCTGAAGATGATGAATTAAGCCGCGACACCTA 120
DB |||||||
DB 2958 TGCAGAACTTCTGTGTGCTACAGCTGAAGATGATGAATTAAGCCGCGACACCTA 3017
QY 121 TTGGAGGCGACTTCCAGCAGTTCAAGAGCAAGATGTACATAGGCGCTTCAAGAGG 180
DB |||||||
DB 3018 TTGGAGGCGACTTCCAGCAGTTCAAGAGCAAGATGTACATAGGCGCTTCAAGAGG 3077
QY 181 AATTGAAACTAAGAACCCTGTATCATGAGTACTCTTGAGCTGTACGAATATTTCTGA 240
DB |||||||
DB 3078 AATTGAAACTAAGAACCCTGTATCATGAGTACTCTTGAGCTGTACGAATATTTCTGA 3137
QY 241 CAGAGCAGCTTTTGGAAAGGACTAGAGAACTCTACCAAGAGCCCAAGAGCTGCTCCTG 300
DB |||||||
DB 3138 CAGAGCAGCTTTTGGAAAGGACTAGAGAACTCTACCAAGAGCCCAAGAGCTGCTCCTG 3197
QY 301 AGGAGAGGCCCCAGAAATGTCACTCGGCTTCTACGAAAGCAGGCTGAGAGGTCAATACTG 360
DB |||||||
DB 3198 AGGAGAGGCCCCAGAAATGTCACTCGGCTTCTACGAAAGCAGGCTGAGAGGTCAATACTG 3257
QY 361 AGTGGGAAAAATTGAACCTGCACTCCGCTGACTGGCAGAGAAAAATGATGAGACCCTTG 420
DB |||||||
DB 3258 AGTGGGAAAAATTGAACCTGCACTCCGCTGACTGGCAGAGAAAAATGATGAGACCCTTG 3317
QY 421 AAAAGACTCCAGGAACCTTCAAGAGGCCACCGATGAGCTGCAAGCTGCCCAAGCTG 480
DB |||||||
DB 3318 AAAAGACTCCAGGAACCTTCAAGAGGCCACCGATGAGCTGCAAGCTGCCCAAGCTG 3377
QY 481 AGGTGATCAAGGGATCTCTGGCAGCCCCGCGGCGATCTCCTCATTTGACTCTCTCCAAGATC 540
DB |||||||
DB 3378 AGGTGATCAAGGGATCTCTGGCAGCCCCGCGGCGATCTCCTCATTTGACTCTCTCCAAGATC 3437
QY 541 ACCTCGAAGAAAGTCAAGGCACTTGAAGAGAAATTGCGCCTTGAAGAGAAAGTGAGCC 600
DB |||||||
DB 3438 ACCTCGAAGAAAGTCAAGGCACTTGAAGAGAAATTGCGCCTTGAAGAGAAAGTGAGCC 3497
QY 601 ACGTCAATGACCTTGCTGCGCAGCTTACACTTTGGGCAATTGAGCTCTCACCGTATAACC 660
DB |||||||
DB 3498 ACGTCAATGACCTTGCTGCGCAGCTTACACTTTGGGCAATTGAGCTCTCACCGTATAACC 3557
QY 661 TCAGCACTCTGGAAGAAGCTGAAACCAAGATGGAAGCTTCTGCAAGTGGCCGTCGAGAGCC 720
DB |||||||
DB 3558 TCAGCACTCTGGAAGAAGCTGAAACCAAGATGGAAGCTTCTGCAAGTGGCCGTCGAGAGCC 3617
QY 721 GAGTCAGGCAAGCTGATGAAGCCCAAGGCACTTTGGTCCAGCATCTCAGCACTTTCTTT 780
DB |||||||
DB 3618 GAGTCAGGCAAGCTGATGAAGCCCAAGGCACTTTGGTCCAGCATCTCAGCACTTTCTTT 3677
QY 781 CCACGCTGTCCAGGGTCCCTGGAGAGAGCCATCTCGCCAAACAAAGTGCCCTACTATA 840
DB |||||||
DB 3678 CCACGCTGTCCAGGGTCCCTGGAGAGAGCCATCTCGCCAAACAAAGTGCCCTACTATA 3737
QY 841 TCAACCAAGAGACTCAAAACAACCTTGCTGGGACCATCCCAAAATGACAGAGCTCTACAGT 900
DB |||||||
DB 3738 TCAACCAAGAGACTCAAAACAACCTTGCTGGGACCATCCCAAAATGACAGAGCTCTACAGT 3797
QY 901 CTTTAGCTGAAGCTGAATATGTCAAGATTTCAAGCTTATAGACTGCCATGAAGTCCGAA 960
DB |||||||
DB 3798 CTTTAGCTGAAGCTGAATATGTCAAGATTTCAAGCTTATAGACTGCCATGAAGTCCGAA 3857

QY 961 GACTGCAGAAAGCCCTTGTGCTTGATCTTTGAGCCCTGTCAGCTGCATGTGATGCCCTTG 1020
DB |||||||
DB 3858 GACTGCAGAAAGCCCTTGTGCTTGATCTTTGAGCCCTGTCAGCTGCATGTGATGCCCTTG 3917
QY 1021 ACCAGCACAACTCAAGCAAAATGACCAAGCCATGATATCTGCAATTAATTGTT 1080
DB |||||||
DB 3918 ACCAGCACAACTCAAGCAAAATGACCAAGCCATGATATCTGCAATTAATTGTT 3977
QY 1081 TGACCACTATTATGACCGCTGAGAGAGCAACAATTTGGTCAAGTCCCTCTCT 1140
DB |||||||
DB 3978 TGACCACTATTATGACCGCTGAGAGAGCAACAATTTGGTCAAGTCCCTCTCT 4037
QY 1141 GCGTGATATGTCTGAACTGCGCTGTAATGTTATGATACGGACGAACAGGAGGA 1200
DB |||||||
DB 4038 GCGTGATATGTCTGAACTGCGCTGTAATGTTATGATACGGACGAACAGGAGGA 4097
QY 1201 TCCGTGTCTGTCTTTAAACTGGCATTTTCCCTGTGTAAAGCACATTTGGAAGACA 1260
DB |||||||
DB 4098 TCCGTGTCTGTCTTTAAACTGGCATTTTCCCTGTGTAAAGCACATTTGGAAGACA 4157
QY 1261 AGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCAACAGAGATTTGTGACCAAGCGAGGC 1320
DB |||||||
DB 4158 AGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCAACAGAGATTTGTGACCAAGCGAGGC 4217
QY 1321 TGGGCTCTCTCTGATGATTTCTATCCAAATTTCAAGACAGTTGGTGAAGTTGCATCCT 1380
DB |||||||
DB 4218 TGGGCTCTCTCTGATGATTTCTATCCAAATTTCAAGACAGTTGGTGAAGTTGCATCCT 4277
QY 1381 TTGGGGGCACTTAACATTGAGCCCAAGTGTCCGAGAGCTGCTTCCAATTTGCTAATAATAAGC 1440
DB |||||||
DB 4278 TTGGGGGCACTTAACATTGAGCCCAAGTGTCCGAGAGCTGCTTCCAATTTGCTAATAATAAGC 4337
QY 1441 CAGAGATCGAAGCGGCCCTCTTCTCTAGACTGATGAGACTGGAACCCCAAGTCCATGCTGT 1500
DB |||||||
DB 4338 CAGAGATCGAAGCGGCCCTCTTCTCTAGACTGATGAGACTGGAACCCCAAGTCCATGCTGT 4397
QY 1501 G 1501
DB 4398 G 4398

RESULT 10
US-09-845-416-34
; Sequence 34, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; FILE REFERENCE: THEREOF
; CURRENT APPLICATION NUMBER: US/09/845,416
; PRIOR FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 34
; LENGTH: 4990
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-34

Query Match 100.0%; Score 1501; DB 10; Length 4990;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1501; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 TCAACATTAGGTCCTTGGAGGCCAGTTCTGACCAGTGGAAGGCTCTGACCTTTCTC 60
DB |||||||
DB 2922 TCAACATTAGGTCCTTGGAGGCCAGTTCTGACCAGTGGAAGGCTCTGACCTTTCTC 2981
QY 61 TGCAGAACTTCTGTGTGCTACAGCTGAAGATGATGAATTAAGCCGCGACGACCTTA 120
DB |||||||
DB 2982 TGCAGAACTTCTGTGTGCTACAGCTGAAGATGATGAATTAAGCCGCGACGACCTTA 3041

QY 121 TTGAGGCGACTTTCAGCAGTTCAGAACGAGAACGATGTACATAGGGCCTTCAAGAGGG 180
Db 3042 TTGAGGCGACTTTCAGCAGTTCAGAACGAGAACGATGTACATAGGGCCTTCAAGAGGG 3101
QY 181 AATTGAAACTAAGAACCTGTATCATGAGTACTCTTGAGACTGTACGAATATTCTGA 240
Db 3102 AATTGAAACTAAGAACCTGTATCATGAGTACTCTTGAGACTGTACGAATATTCTGA 3161
QY 241 CAGAGCAGCCTTTGGAGAGCTAGAGAACTTACCAGAGGCCAGAGAGCTGCTCTG 300
Db 3162 CAGAGCAGCCTTTGGAGAGCTAGAGAACTTACCAGAGGCCAGAGAGCTGCTCTG 3221
QY 301 AGGAGAGAGCCCAAGATGTCACTCGGCTTCTACGAAAGCAGGCTGAGAGGTCAATACTG 360
Db 3222 AGGAGAGAGCCCAAGATGTCACTCGGCTTCTACGAAAGCAGGCTGAGAGGTCAATACTG 3281
QY 361 AGTGGAAAAATTGAACTGTCACTCGGCTGACTGCGCAGAGAAAAATAGATGAGACCTTG 420
Db 3282 AGTGGAAAAATTGAACTGTCACTCGGCTGACTGCGCAGAGAAAAATAGATGAGACCTTG 3341
QY 421 AAAGACTCCAGGAACCTTCAAGAGGCCACGATGAGCTGACCTCAAGCTGCGCAAGCTG 480
Db 3342 AAAGACTCCAGGAACCTTCAAGAGGCCACGATGAGCTGACCTCAAGCTGCGCAAGCTG 3401
QY 481 AGTGATCAAGGGATCTGCGCAGCCGCTGGCGATCTCCTCATTTGACTCTTCCAAAGATC 540
Db 3402 AGTGATCAAGGGATCTGCGCAGCCGCTGGCGATCTCCTCATTTGACTCTTCCAAAGATC 3461
QY 541 ACCTCGAAGAAAGTCAAGGCACTTCGAGAGAGAAATTGCGCTCTGAAAGAGAACTGAGCC 600
Db 3462 ACCTCGAAGAAAGTCAAGGCACTTCGAGAGAGAAATTGCGCTCTGAAAGAGAACTGAGCC 3521
QY 601 AGTCAATGACCTTGTCTGCGCAGCTTACCACCTTTGGGCAATTCAGCTCTCAACCTATAAC 660
Db 3522 AGTCAATGACCTTGTCTGCGCAGCTTACCACCTTTGGGCAATTCAGCTCTCAACCTATAAC 3581
QY 661 TCAGCACTCTGGAAGACTGAAACACACAGATGGAAGCTTCTGCAAGTGGCGCTGAGAGACC 720
Db 3582 TCAGCACTCTGGAAGACTGAAACACACAGATGGAAGCTTCTGCAAGTGGCGCTGAGAGACC 3641
QY 721 GAGTCAGGAGCTGATGAAAGCCACAGGGACTTTGGTCCAGCATCTCAGCACTTTCTTT 780
Db 3642 GAGTCAGGAGCTGATGAAAGCCACAGGGACTTTGGTCCAGCATCTCAGCACTTTCTTT 3701
QY 781 CCAGCTGTCTCAGGGGTCCTGGGAGAGAGCCATCTCGCCAAACAAAGTGCCTACTATA 840
Db 3702 CCAGCTGTCTCAGGGGTCCTGGGAGAGAGCCATCTCGCCAAACAAAGTGCCTACTATA 3761
QY 841 TCAACCAAGAGACTCAAAACAACCTTGTGGGAGACCATCCCAAAATGACAGAGCTTACCACT 900
Db 3762 TCAACCAAGAGACTCAAAACAACCTTGTGGGAGACCATCCCAAAATGACAGAGCTTACCACT 3821
QY 901 CTTTAGCTGACCTGAATAATGTCAGATTTCTAGCTTATAGACTGCCATGAAACTCCGA 960
Db 3822 CTTTAGCTGACCTGAATAATGTCAGATTTCTAGCTTATAGACTGCCATGAAACTCCGA 3881
QY 961 GACTGCAAGAGGCCCTTTGCTTGAATCTCTTGAGCCTGTCACTGCATGTGATGCTCTTG 1020
Db 3882 GACTGCAAGAGGCCCTTTGCTTGAATCTCTTGAGCCTGTCACTGCATGTGATGCTCTTG 3941
QY 1021 ACCAGCAACCTCAAGCAAAATGACAGCCCATGATATCTGAGATTATTAATTGTT 1080
Db 3942 ACCAGCAACCTCAAGCAAAATGACAGCCCATGATATCTGAGATTATTAATTGTT 4001
QY 1081 TGACCACTATTTATGACCGCTGAGCAAGAGCAACAATTGGTCAACGCTCCTCTCT 1140
Db 4002 TGACCACTATTTATGACCGCTGAGCAAGAGCAACAATTGGTCAACGCTCCTCTCT 4061
QY 1141 GCGTGGATATGTGTCTGAAGTGTCTGATGCTGTAATGTTATGATACGGAGCAAGAGAGGA 1200
Db 4062 GCGTGGATATGTGTCTGAAGTGTCTGATGCTGTAATGTTATGATACGGAGCAAGAGAGGA 4121

QY 1201 TCCGTGCTGTCTTTTAAAACTGGCATCATTTCCCTGTGTAAAGCATTTGGAAGACA 1260
Db 4122 TCCGTGCTGTCTTTTAAAACTGGCATCATTTCCCTGTGTAAAGCATTTGGAAGACA 4181
QY 1261 AGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCAACAGGATTTGTGACCAAGCGCAGGC 1320
Db 4182 AGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCAACAGGATTTGTGACCAAGCGCAGGC 4241
QY 1321 TGGGCTCTCTTGTGATGATTTCTAATCCAATTCCAAGACAGTTGGGTGAAGTGCATCT 1380
Db 4242 TGGGCTCTCTTGTGATGATTTCTAATCCAATTCCAAGACAGTTGGGTGAAGTGCATCT 4301
QY 1381 TTGGGGCAGTAAACATTGAGCCAGTGTCCGGAGCTGCTTCCAATTGCTAATAATAGC 1440
Db 4302 TTGGGGCAGTAAACATTGAGCCAGTGTCCGGAGCTGCTTCCAATTGCTAATAATAGC 4361
QY 1441 CAGAGATGAAAGCGGCCCTTCTCTAGACTGATGAGACTGGAAACCCAGTCCATGTGT 1500
Db 4362 CAGAGATGAAAGCGGCCCTTCTCTAGACTGATGAGACTGGAAACCCAGTCCATGTGT 4421
QY 1501 G 1501
Db 4422 G 4422

RESULT 11
US-09-845-416-36
; Sequence 36, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845,416
; PRIOR FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: Patent In Ver. 2.1
; SEQ ID NO 36
; LENGTH: 5060
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-36

Query Match 100.0%; Score 1501; DB 10; Length 5060;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1501; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 TCAACATTAGGTCCATTTTGGAAGCCAGTTCTGACCAAGTGAAGCGTCTGCACCTTCTC 60
Db 2992 TCAACATTAGGTCCATTTTGGAAGCCAGTTCTGACCAAGTGAAGCGTCTGCACCTTCTC 3051
QY 61 TGCAGGAACCTTGTGTGTGGCTACAGCTGAAAGATGATGAATTAAGCCGGCAGGCACCTA 120
Db 3052 TGCAGGAACCTTGTGTGTGGCTACAGCTGAAAGATGATGAATTAAGCCGGCAGGCACCTA 3111
QY 121 TTGAGGCGCACTTTCAGCAGTTCAAGAGCAAGACGATGTACATAGGCGCTTCAAGAGGG 180
Db 3112 TTGAGGCGCACTTTCAGCAGTTCAAGAGCAAGACGATGTACATAGGCGCTTCAAGAGGG 3171
QY 181 AATTGAAACTAAGAACCTGTATCATGAGTACTCTTGAGACTGTACGAATATTTCTGA 240
Db 3172 AATTGAAACTAAGAACCTGTATCATGAGTACTCTTGAGACTGTACGAATATTTCTGA 3231
QY 241 CAGAGCAGCCTTTGGAAGACTAGAGAACTCTACAGAGGCCAGAGAGCTGCTCTCTG 300
Db 3232 CAGAGCAGCCTTTGGAAGACTAGAGAACTCTACAGAGGCCAGAGAGCTGCTCTCTG 3291
QY 301 AGGAGAGAGCCAGAAATGTCACTCGGCTTCTACGAAGCAGGCTGAGAGGTCAATACTG 360
Db 3292 AGGAGAGAGCCAGAAATGTCACTCGGCTTCTACGAAGCAGGCTGAGAGGTCAATACTG 3351

OY		601	ACGTCATGACCCTTGCTCGCCAGCCTTACCACTTTGGGCATTCACTCTCACCGTATAACC	660
Db		3681	ACGTCAATGACTTGCTCGCCAGCCTTACCACTTTGGGCATTCACTCTCACCGTATAACC	3740
OY		661	TCAGCACTCTGGAGAAGCCTGAACAACCAATGGAAGCTTCTGCAGTGGCCGTGAGAGACC	720
Db		3741	TCAGCACTCTGGAGAAGCCTGAACAACCAATGGAAGCTTCTGCAGTGGCCGTGAGAGACC	3800
OY		721	GAGTCAGGCAGCTGCATGAAGCCCAAGGGACTTTGGTCCAGCATCTCAGCACTTCTTT	780
Db		3801	GAGTCAGGCAGCTGCATGAAGCCCAAGGGACTTTGGTCCAGCATCTCAGCACTTCTTT	3860
OY		781	CCACGTCTGTCCAGGGGTCCCTGGAGAGAGCCATCTCGCCAAACAAAGTCCCCTACTATA	840
Db		3861	CCACGTCTGTCCAGGGGTCCCTGGAGAGAGCCATCTCGCCAAACAAAGTCCCCTACTATA	3920
OY		841	TCAACCAAGCACTCAAACCACTTGCTGGGACCATCCCAAAATGACAGAGCTCTACAGT	900
Db		3921	TCAACCAAGCACTCAAACCACTTGCTGGGACCATCCCAAAATGACAGAGCTCTACAGT	3980
OY		901	CTTTAGCTGACCTGAATTAATGCAGATTCTCAGCTTATAGACTGCCATGAAGAACTCCGAA	960
Db		3981	CTTTAGCTGACCTGAATTAATGCAGATTCTCAGCTTATAGACTGCCATGAAGAACTCCGAA	4040
OY		961	GACTGCGAAGAGCCCCCTTGCTTGGATCTCTTGAGCCCTGTACCTGCATGTGATGCTTGG	1020
Db		4041	GACTGCGAAGAGCCCCCTTGCTTGGATCTCTTGAGCCCTGTACCTGCATGTGATGCTTGG	4100
OY		1021	ACCAGACAACCTCAAGCAAAATGACCAAGCCCATGGATATCTCGAGATTATTAATTGTT	1080
Db		4101	ACCAGACAACCTCAAGCAAAATGACCAAGCCCATGGATATCTCGAGATTATTAATTGTT	4160
OY		1081	TGACCACTATTTATGACCCGCTTGAGCAAGACACAAATTTGGTCAACGTCCTCTCT	1140
Db		4161	TGACCACTATTTATGACCCGCTTGAGCAAGACACAAATTTGGTCAACGTCCTCTCT	4220
OY		1141	GCGTGATATGTGTCTGAAGTGGCTGCTGTAATGTTATGATACGGAGCAACAGGAGGA	1200
Db		4221	GCGTGATATGTGTCTGAAGTGGCTGCTGTAATGTTATGATACGGAGCAACAGGAGGA	4280
OY		1201	TCCGTGCTCTGCTTTTAAAACTGGCATCATTTCCCTGTGTAAGACACATTTGGAAGACA	1260
Db		4281	TCCGTGCTCTGCTTTTAAAACTGGCATCATTTCCCTGTGTAAGACACATTTGGAAGACA	4340
OY		1261	AGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCAACAGATTTTGTGACCAAGCGCAGGC	1320
Db		4341	AGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCAACAGATTTTGTGACCAAGCGCAGGC	4400
OY		1321	TGGGCTCTCTTCTGCATGATTTCTATCCAATTTCCAAGACAGTTGGGTGAAGTTGCATCCT	1380
Db		4401	TGGGCTCTCTTCTGCATGATTTCTATCCAATTTCCAAGACAGTTGGGTGAAGTTGCATCCT	4460
OY		1381	TTGGGGGCAAGTAACATTGAGCCCAAGTGTCCGAGCTGCTTCCAATTTGCTAATATTAAGC	1440
Db		4461	TTGGGGGCAAGTAACATTGAGCCCAAGTGTCCGAGCTGCTTCCAATTTGCTAATATTAAGC	4520
OY		1441	CAGAGATCGAAGCGGCGCTCTTCTAGACTGATGAGACTGMAACCCCAAGTCCATGTGT	1500
Db		4521	CAGAGATCGAAGCGGCGCTCTTCTAGACTGATGAGACTGMAACCCCAAGTCCATGTGT	4580
OY		1501	G 1501	
Db		4581	G 4581	

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; TITLE OF INVENTION: Mini-Dystrophin Nucleic Acids and Peptide Sequences
; FILE REFERENCE: UM-06968
; CURRENT APPLICATION NUMBER: US/10/149,736
; PRIOR FILING DATE: 2002-06-17
; PRIOR APPLICATION NUMBER: PCT/US01/31126
; PRIOR FILING DATE: 2001-10-04
; PRIOR APPLICATION NUMBER: 60/238,848
; PRIOR FILING DATE: 2000-10-06
; NUMBER OF SEQ ID NOS: 96
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 40
; LENGTH: 5339
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic
US-10-149-736-40

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Query Match	100.0%;	Score 1501;	DB 17;	length 5339;
Best Local Similarity	100.0%;	Pred. No. 0;		
Matches 1501; Conservative	0;	Mismatches	0;	Indels 0;
				Gaps 0.0;

QY	1	TCACACTTAGGTCCCATTTGGAGCCAGTCTTGACCAAGTGAAGCGTCTGCACCTTTCTC	60
Db	1866	TCACACTTAGGTCCCATTTGGAGCCAGTCTTGACCAAGTGAAGCGTCTGCACCTTTCTC	1925
QY	61	TGCAGAACTTCTGTGTGGCTACAGCTGAAAGATGATGAATTAAGCCGCGAGGACCTA	120
Db	1926	TGCAGAACTTCTGTGTGGCTACAGCTGAAAGATGATGAATTAAGCCGCGAGGACCTA	1985
QY	121	TTGGAGGCGACTTTCAGCAGTTCAAGACGAAACGATGTACATAGGGCTTCAAGAGG	180
Db	1986	TTGGAGGCGACTTTCAGCAGTTCAAGACGAAACGATGTACATAGGGCTTCAAGAGG	2045
QY	181	AATTGAAAACTAAAGAACTGTATCATGAGTACTCTGAGACTGTACGAATATTCTGA	240
Db	2046	AATTGAAAACTAAAGAACTGTATCATGAGTACTCTGAGACTGTACGAATATTCTGA	2105
QY	241	CAGAGCAGCCTTTGGAAGACTAGAGAAACTCTACAGAGCCCGAGAGCTGCTCCTG	300
Db	2106	CAGAGCAGCCTTTGGAAGACTAGAGAAACTCTACAGAGCCCGAGAGCTGCTCCTG	2165
QY	301	AGGAGAGAGCCAGAAATGTCACTCGGCTTCTACGAAAGCAGGCTGAGGAGTCAATACTG	360
Db	2166	AGGAGAGAGCCAGAAATGTCACTCGGCTTCTACGAAAGCAGGCTGAGGAGTCAATACTG	2225
QY	361	AGTGGGAAAAATTGAACTGCACCTCCGCTGACTGGCAGAGAAAAATAGATGACCCCTTG	420
Db	2226	AGTGGGAAAAATTGAACTGCACCTCCGCTGACTGGCAGAGAAAAATAGATGACCCCTTG	2285
QY	421	AAAGACTCCAGGAATTCAAGAGGCCACCGATGAGCTGGAACCTCAAGCTGCCCAAGCTG	480
Db	2286	AAAGACTCCAGGAATTCAAGAGGCCACCGATGAGCTGGAACCTCAAGCTGCCCAAGCTG	2345
QY	481	AGGTGATCAAGGATCCTGGCAGCCCGTGGGCGATCTCCTCATTTGACTCTTCCAAAGATC	540
Db	2346	AGGTGATCAAGGATCCTGGCAGCCCGTGGGCGATCTCCTCATTTGACTCTTCCAAAGATC	2405
QY	541	ACCTCGAGAAAGTCAAGGCACTTCGAGGAGAAATTGCCCTCTGAAAGCAACGTGAGCC	600
Db	2406	ACCTCGAGAAAGTCAAGGCACTTCGAGGAGAAATTGCCCTCTGAAAGCAACGTGAGCC	2465
QY	601	ACGTCAATGACTTGTCTCGCCAGCTTACCACTTTGGGCATTGAGCTTCAACCGTATTAAC	660
Db	2466	ACGTCAATGACTTGTCTCGCCAGCTTACCACTTTGGGCATTGAGCTTCAACCGTATTAAC	2525
QY	661	TCAGCACTCTGGAAGACCTGAAACACGATGGAAGCTTCTGCAGGTGGCCGTGAGGACC	720
Db	2526	TCAGCACTCTGGAAGACCTGAAACACGATGGAAGCTTCTGCAGGTGGCCGTGAGGACC	2585
QY	721	GAGTCAGGCACTGCATGAAGCCCAAGGGACTTTGGTCCAGCACTCTCAGCACTTTCTTT	780
Db	2586	GAGTCAGGCACTGCATGAAGCCCAAGGGACTTTGGTCCAGCACTCTCAGCACTTTCTTT	2645

QY 781 CCACGCTGTGCCAGGGTCCCTGGGAGAGAGCCATCTCGCCAAACAAGTGCCCTACTATA 840
DB 2646 CCACGCTGTGCCAGGGTCCCTGGGAGAGAGCCATCTCGCCAAACAAGTGCCCTACTATA 2705
QY 841 TCAACCAAGAGACTCAAAACAACCTTGCTGGGAGCCATCCCAAAATGACAGAGCTTACCAGT 900
DB 2706 TCAACCAAGAGACTCAAAACAACCTTGCTGGGAGCCATCCCAAAATGACAGAGCTTACCAGT 2765
QY 901 CTTTAGCTGACCTGGAATATGTCAAGATCTCAGCTTATAGAGCTGCAAGAACTCCGAA 960
DB 2766 CTTTAGCTGACCTGGAATATGTCAAGATCTCAGCTTATAGAGCTGCAAGAACTCCGAA 2825
QY 961 GACTGCAAGAGGCCCTTGTGATCTTGAGCCTGTGAGCTGCAAGTGTGATGCTTGG 1020
DB 2826 GACTGCAAGAGGCCCTTGTGATCTTGAGCCTGTGAGCTGCAAGTGTGATGCTTGG 2885
QY 1021 ACCAGCAACCTCAAGCAAAATGACCAAGCCCATGGATATCCTGCAAGTATTAATTGTT 1080
DB 2886 ACCAGCAACCTCAAGCAAAATGACCAAGCCCATGGATATCCTGCAAGTATTAATTGTT 2945
QY 1081 TGACCACTATTATGACCGCCTGGAGCAAGCAACAATTGTTGTCACGTCCTCTCT 1140
DB 2946 TGACCACTATTATGACCGCCTGGAGCAAGCAACAATTGTTGTCACGTCCTCTCT 3005
QY 1141 GCGTGATATGTGTCTGAACTGGCTGTAATGTTATGATACGGGAGCAAGAGAGGA 1200
DB 3006 GCGTGATATGTGTCTGAACTGGCTGTAATGTTATGATACGGGAGCAAGAGAGGA 3065
QY 1201 TCCGTGCTGTCTTTTAAACTGGCATATTTCCCTGTGTAAGCAATTTGGAAGACA 1260
DB 3066 TCCGTGCTGTCTTTTAAACTGGCATATTTCCCTGTGTAAGCAATTTGGAAGACA 3125
QY 1261 AGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCAACAGAGATTTGTACCAAGCAGGC 1320
DB 3126 AGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCAACAGAGATTTGTACCAAGCAGGC 3185
QY 1321 TGGGCTCTCTTCTGCATGATTTCAAAATTCGAAGACAGTTGGGTGAAGTTGCATCCT 1380
DB 3186 TGGGCTCTCTTCTGCATGATTTCAAAATTCGAAGACAGTTGGGTGAAGTTGCATCCT 3245
QY 1381 TTGGGGCAGTAACATTGAGCCAAAGTGTCCGAGAGCTGCTTCCAATTTGCTAATAAAGC 1440
DB 3246 TTGGGGCAGTAACATTGAGCCAAAGTGTCCGAGAGCTGCTTCCAATTTGCTAATAAAGC 3305
QY 1441 CAGAGATCGAAGCGGCCCTCTTCTAGACTGATGAGACTGGAACCCAGTCCATGTGT 1500
DB 3306 CAGAGATCGAAGCGGCCCTCTTCTAGACTGATGAGACTGGAACCCAGTCCATGTGT 3365
QY 1501 G 1501
DB 3366 G 3366

RESULT 14
US-10-149-736-41
; Sequence 41, Application US/10149736
; Publication No. US20030216332A1
; GENERAL INFORMATION:
; APPLICANT: Chamberlain, Jeffrey S.
; APPLICANT: Harper, Scott Q.
; TITLE OF INVENTION: Mini-Dystrophin Nucleic Acids and Peptide Sequences
; FILE REFERENCE: UM-06968
; CURRENT APPLICATION NUMBER: US/10/149,736
; PRIOR FILING DATE: 2002-06-17
; PRIOR APPLICATION NUMBER: PCT/US01/31126
; PRIOR FILING DATE: 2001-10-04
; PRIOR APPLICATION NUMBER: 60/238,848
; NUMBER OF SEQ ID NOS: 96
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 41
; LENGTH: 5462

QY 1 TCAACATTAAGTCCCATTTTGGAGCCAGTTCTGACCAAGTGAAGCCTTGACCTTCTC 60
DB 1989 TCAACATTAAGTCCCATTTTGGAGCCAGTTCTGACCAAGTGAAGCCTTGACCTTCTC 2048
QY 61 TGCAGGAACCTTCTGTGTGGCTACAGCTGAAAAGATGATGAATTAAGCCGAGGACCTA 120
DB 2049 TGCAGGAACCTTCTGTGTGGCTACAGCTGAAAAGATGATGAATTAAGCCGAGGACCTA 2108
QY 121 TTGAGGCACTTTCAGCAGTTCAAGACGAAAGATGTATAGGCTTCAAGAGGG 180
DB 2109 TTGAGGCACTTTCAGCAGTTCAAGACGAAAGATGTATAGGCTTCAAGAGGG 2168
QY 181 AATTGAAACTAAAGAACTGTAAATCATGACTCTTGAGACTGTACGAATATTCTGA 240
DB 2169 AATTGAAACTAAAGAACTGTAAATCATGACTCTTGAGACTGTACGAATATTCTGA 2228
QY 241 CAGAGCAGCTTTGGAAAGACTAGAAACTCTACCAGAGGCCAGAGAGCTGCTCCTG 300
DB 2229 CAGAGCAGCTTTGGAAAGACTAGAAACTCTACCAGAGGCCAGAGAGCTGCTCCTG 2288
QY 301 AGGAGAGAGCCCAAGATGTCACTCGGCTTTCTACGAAAGCAGGCTGAGAGGTCAATACTG 360
DB 2289 AGGAGAGAGCCCAAGATGTCACTCGGCTTTCTACGAAAGCAGGCTGAGAGGTCAATACTG 2348
QY 361 AGTGGGAAAAATTGAACCTGCACTCCGCTGACTGCGCAGAGAAAAATAGATGAGACCCTTG 420
DB 2349 AGTGGGAAAAATTGAACCTGCACTCCGCTGACTGCGCAGAGAAAAATAGATGAGACCCTTG 2408
QY 421 AAAGACTCCAGAACTTCAAGAGGCCAGGATGAGCTGAGACTCAAGCTGCGCAAGCTG 480
DB 2409 AAAGACTCCAGAACTTCAAGAGGCCAGGATGAGCTGAGACTCAAGCTGCGCAAGCTG 2468
QY 481 AGGTGATCAAGGATCCTGGCAGGCCGTGGGCGATCTCCTCATTTGACTCTCCAAAGATC 540
DB 2469 AGGTGATCAAGGATCCTGGCAGGCCGTGGGCGATCTCCTCATTTGACTCTCCAAAGATC 2528
QY 541 ACCTCGAGAAAGTCAAGGCACTTGCAGGAGAAATTGCGCCTCTGAAGAGAAAGCTGAGCC 600
DB 2529 ACCTCGAGAAAGTCAAGGCACTTGCAGGAGAAATTGCGCCTCTGAAGAGAAAGCTGAGCC 2588
QY 601 ACGTCAATGACCTTGCTCGCCAGCTTAACACTTGGGCATTGAGCTCTCAACGATTAACC 660
DB 2589 ACGTCAATGACCTTGCTCGCCAGCTTAACACTTGGGCATTGAGCTCTCAACGATTAACC 2648
QY 661 TCAGCACTGTGAAGACCTGAACACCAAGATGAAGCTTCTGACGAGTGGCGGTGAGGACC 720
DB 2649 TCAGCACTGTGAAGACCTGAACACCAAGATGAAGCTTCTGACGAGTGGCGGTGAGGACC 2708
QY 721 GAGTCAGGAGCTGATGAAGCCCAAGGACTTTGGTCCAGCATCTCAGCACTTCTTT 780
DB 2709 GAGTCAGGAGCTGATGAAGCCCAAGGACTTTGGTCCAGCATCTCAGCACTTCTTT 2768
QY 781 CCACGCTGTGCCAGGGTCCCTGGGAGAGAGCCATCTCGCCAAACAAGTGCCCTACTATA 840
DB 2769 CCACGCTGTGCCAGGGTCCCTGGGAGAGAGCCATCTCGCCAAACAAGTGCCCTACTATA 2828
QY 841 TCAACCAAGAGACTCAAAACAACCTTGCTGGGAGCCATCCCAAAATGACAGAGCTTACCAGT 900
DB 2829 TCAACCAAGAGACTCAAAACAACCTTGCTGGGAGCCATCCCAAAATGACAGAGCTTACCAGT 2888
QY 901 CTTTAGCTGACCTGGAATATGTCAAGATCTCAGCTTATAGAGCTGCAAGAACTCCGAA 960
DB 2889 CTTTAGCTGACCTGGAATATGTCAAGATCTCAGCTTATAGAGCTGCAAGAACTCCGAA 2948

QY 961 GACTGCAGAAGGCCCTTGTGCTTGATCTCTTGAGCCTGTCAAGTGCATGTGATGCTTGG 1020
Db 2949 GACTGCAGAAGGCCCTTGTGCTTGATCTCTTGAGCCTGTCAAGTGCATGTGATGCTTGG 3008
QY 1021 ACCAGCACAACTCTCAAGCAAAATGACCAAGCCCATGGAATATCTCGAGATTAATTTGTT 1080
Db 3009 ACCAGCACAACTCTCAAGCAAAATGACCAAGCCCATGGAATATCTCGAGATTAATTTGTT 3068
QY 1081 TGACCACTATTATGACCCGCTTGAGCAAGAGCAACAATTTGGTCAACGTCCTCTCT 1140
Db 3069 TGACCACTATTATGACCCGCTTGAGCAAGAGCAACAATTTGGTCAACGTCCTCTCT 3128
QY 1141 GCGTGATATGTGTCTGAAGTGGCTGCTGAATGTTATGATACGGGACGAACAGGAGGA 1200
Db 3129 GCGTGATATGTGTCTGAAGTGGCTGCTGAATGTTATGATACGGGACGAACAGGAGGA 3188
QY 1201 TCCGTGCTGTCTTTTAAAACTGGCATCATTTCCCTGTGTAAAGCACATTTGGAAGACA 1260
Db 3189 TCCGTGCTGTCTTTTAAAACTGGCATCATTTCCCTGTGTAAAGCACATTTGGAAGACA 3248
QY 1261 AGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCAACAGGATTTGTGACCAAGCGAGGC 1320
Db 3249 AGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCAACAGGATTTGTGACCAAGCGAGGC 3308
QY 1321 TGGGCTCTCTCTGATGATTTCTATCCAAATTTCCAAGACAGTTGGGTGAAGTTGCATCCT 1380
Db 3309 TGGGCTCTCTCTGATGATTTCTATCCAAATTTCCAAGACAGTTGGGTGAAGTTGCATCCT 3368
QY 1381 TTGGGGCAGTAACATTGAGCCAAAGTGTCCGAGCTGCTTCCAATTTGCTAATAATAAGC 1440
Db 3369 TTGGGGCAGTAACATTGAGCCAAAGTGTCCGAGCTGCTTCCAATTTGCTAATAATAAGC 3428
QY 1441 CAGAGATCGAAGCGCCCTCTTCTCTAGACTGAGTGAAGTGAACCCAGTCCATGTGT 1500
Db 3429 CAGAGATCGAAGCGCCCTCTTCTCTAGACTGAGTGAAGTGAACCCAGTCCATGTGT 3488
QY 1501 G 1501
Db 3489 G 3489

RESULT 15
US-10-149-736-42
; Sequence 42, Application US/10149736
; Publication No. US20030216332A1
; GENERAL INFORMATION:
; APPLICANT: Chamberlain, Jeffrey S.
; APPLICANT: Harper, Scott Q.
; TITLE OF INVENTION: Mini-Dystrophin Nucleic Acids and Peptide Sequences
; FILE REFERENCE: UM-06968
; CURRENT APPLICATION NUMBER: US/10/149,736
; PRIOR FILING DATE: 2002-06-17
; PRIOR APPLICATION NUMBER: PCT/US01/31126
; PRIOR FILING DATE: 2001-10-04
; PRIOR APPLICATION NUMBER: 60/238,848
; PRIOR FILING DATE: 2000-10-06
; NUMBER OF SEQ ID NOS: 96
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 42
; LENGTH: 8689
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic
US-10-149-736-42

Query Match 100.0%; Score 1501; DB 17; Length 8689;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1501; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 TCACATTAAGTCCCATTTGGAAGCAAGTTCTGACCAAGTGAAGCGTCTGACCCCTTCTC 60
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||

Db 3321 TCAACATTAAGTCCCATTTGGAAGCAAGTTCTGACCAAGTGAAGCGTCTGACCCCTTCTC 3380
QY 61 TGCAGAACTTCTGGTGTGCTACAGCTGAAAGATGATGAATTAAGCCGGCAGGACCTA 120
Db 3381 TGCAGAACTTCTGGTGTGCTACAGCTGAAAGATGATGAATTAAGCCGGCAGGACCTA 3440
QY 121 TTGAGGCGACTTTCAGCAGTTCAAGACGAGAAGCATGTATAGGGCCTTCAAGAGGG 180
Db 3441 TTGAGGCGACTTTCAGCAGTTCAAGACGAGAAGCATGTATAGGGCCTTCAAGAGGG 3500
QY 181 AATTGAAAATAAAGAACTGTATCATGAGTACTCTTGAGACTGTACGAATATTCTGA 240
Db 3501 AATTGAAAATAAAGAACTGTATCATGAGTACTCTTGAGACTGTACGAATATTCTGA 3560
QY 241 CAGAGCAGCCTTTGGAAGACTAGAGAACTTACCAGAGGCCAGAGAGCTGCTCCTG 300
Db 3561 CAGAGCAGCCTTTGGAAGACTAGAGAACTTACCAGAGGCCAGAGAGCTGCTCCTG 3620
QY 301 AGAGAGAGCCCAAGATGTCACTCGGCTTCTACGAAAGCAGCTGAGAGGTCATATCTG 360
Db 3621 AGAGAGAGCCCAAGATGTCACTCGGCTTCTACGAAAGCAGCTGAGAGGTCATATCTG 3680
QY 361 AGTGGAAAAATTGAACCTGCACTCCGCTGACTGSCAGAGAAAAATAGATGAGACCTTG 420
Db 3681 AGTGGAAAAATTGAACCTGCACTCCGCTGACTGSCAGAGAAAAATAGATGAGACCTTG 3740
QY 421 AAAGACTCCAGGAACCTTCAAGAGCCACGAGTGAAGTGAAGTGAAGTGAAGTGAAGTGA 480
Db 3741 AAAGACTCCAGGAACCTTCAAGAGCCACGAGTGAAGTGAAGTGAAGTGAAGTGAAGTGA 3800
QY 481 AGGTGATCAAGGATCCTGGGACCCCGTGGGCGATCTCTCATTTGACTCTCTCCAAGATC 540
Db 3801 AGGTGATCAAGGATCCTGGGACCCCGTGGGCGATCTCTCATTTGACTCTCTCCAAGATC 3860
QY 541 ACCTCGAGAAAGTCAAGGCACTTCAAGGAGAAATGCGCCTTGAAAGAGAACGTGAGCC 600
Db 3861 ACCTCGAGAAAGTCAAGGCACTTCAAGGAGAAATGCGCCTTGAAAGAGAACGTGAGCC 3920
QY 601 ACCTCAATGACCTTGTCTGCGCAGCTTACCACTTTGGGCAATCAAGCTCTACCCGTATAAC 660
Db 3921 ACCTCAATGACCTTGTCTGCGCAGCTTACCACTTTGGGCAATCAAGCTCTACCCGTATAAC 3980
QY 661 TCAGCACTCTGGAAGACTGAAACACAGATGGAAGCTTCTGACAGTGGCCGTGAGGACC 720
Db 3981 TCAGCACTCTGGAAGACTGAAACACAGATGGAAGCTTCTGACAGTGGCCGTGAGGACC 4040
QY 721 GAGTCAGGCACTGATGAAGCCACAGGACCTTGGTCCAGCATCTCAGCACTTCTTT 780
Db 4041 GAGTCAGGCACTGATGAAGCCACAGGACCTTGGTCCAGCATCTCAGCACTTCTTT 4100
QY 781 CCAGCTGTCTCAGGCTCCCTGGAGAGAGGCACTCTGCCAAACAAAGTGCCCTACTATA 840
Db 4101 CCAGCTGTCTCAGGCTCCCTGGAGAGAGGCACTCTGCCAAACAAAGTGCCCTACTATA 4160
QY 841 TCAACCAAGAGACTCAAAACAACCTTGTGGGACCAATCCCAAAATGACAGAGCTTACCAAGT 900
Db 4161 TCAACCAAGAGACTCAAAACAACCTTGTGGGACCAATCCCAAAATGACAGAGCTTACCAAGT 4220
QY 901 CTTTACGTGACCTGATAATATGTCAAGTCTTCAAGCTTATAGGACTGCCATGAATCCGAA 960
Db 4221 CTTTACGTGACCTGATAATATGTCAAGTCTTCAAGCTTATAGGACTGCCATGAATCCGAA 4280
QY 961 GACTGCAGAAGGCCCTTGTGCTTGATCTTGAGCCTGTCAAGTGCATGTGATGCTTGG 1020
Db 4281 GACTGCAGAAGGCCCTTGTGCTTGATCTTGAGCCTGTCAAGTGCATGTGATGCTTGG 4340
QY 1021 ACCAGCACAACTCTCAAGCAAAATGACCAAGCCCATGGAATATCTCGAGATTAATTTGTT 1080
Db 4341 ACCAGCACAACTCTCAAGCAAAATGACCAAGCCCATGGAATATCTCGAGATTAATTTGTT 4400
QY 1081 TGACCACTATTATGACCCGCTTGAGCAAGAGCAACAATTTGGTCAAGCTCCCTCTCT 1140
Db 4401 TGACCACTATTATGACCCGCTTGAGCAAGAGCAACAATTTGGTCAAGCTCCCTCTCT 4460

QY	1141	GGTGATATGTGTCTGAACTGGCTGTAATGTTATGATACGGGACGAACAGGGAGGA	1200
Db	4461	GGTGATATGTGTCTGAACTGGCTGTAATGTTATGATACGGGACGAACAGGGAGGA	4520
QY	1201	TCCGTGCTGTCTTTTAAACTGGCATCATTTCCCTGTGTAAGCACATTTGGAAGACA	1260
Db	4521	TCCGTGCTGTCTTTTAAACTGGCATCATTTCCCTGTGTAAGCACATTTGGAAGACA	4580
QY	1261	AGTACAGATACCTTTTCAAGCAAGTGGCATTTCAACAGATTTGTGACCAAGCGCAGGC	1320
Db	4581	AGTACAGATACCTTTTCAAGCAAGTGGCATTTCAACAGATTTGTGACCAAGCGCAGGC	4640
QY	1321	TGGGCTCTCTTGTCATGATTCTATCCAATTCCAAGACAGTTGGGTGAAGTTGCATCCT	1380
Db	4641	TGGGCTCTCTTGTCATGATTCTATCCAATTCCAAGACAGTTGGGTGAAGTTGCATCCT	4700
QY	1381	TTGGGGCAGTAACATTGAGCCAAAGTCCGAGAGCTGCTTCCAATTGCTAATAATAAGC	1440
Db	4701	TTGGGGCAGTAACATTGAGCCAAAGTCCGAGAGCTGCTTCCAATTGCTAATAATAAGC	4760
QY	1441	CAGAGATCGAAGCGCCCTTCTCTAGACTGAGATGAGACTGGAACCCAGTCCATGATGT	1500
Db	4761	CAGAGATCGAAGCGCCCTTCTCTAGACTGAGATGAGACTGGAACCCAGTCCATGATGT	4820
QY	1501	G 1501	
Db	4821	G 4821	

Search completed: March 2, 2005, 20:00:36
Job time : 902.381 secs

